

For Quadrant: REQ

effort.

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business

Practice Standards associated with NIST PAP 03

and PAP 09

1.	RECO	MMENDED ACTION:		T OF EC VOTE TO ACCEPT IMENDED ACTION:
	X	Accept as requested Accept as modified below Decline	X	Change to Existing Practice Status Quo
2.	TYPE	OF DEVELOPMENT/MAINTENANCE		
	Per Re	equest:	Per Re	ecommendation:
	Χ	Initiation	X	_ Initiation
		Modification		_ Modification
		Interpretation		_ Interpretation
		_ Withdrawal		_ Withdrawal
		Principle		Principle
		Definition		Definition
		Business Practice Standard		Business Practice Standard
		Document		Document
	Χ	Data Element	Χ	Data Element
		Code Value		_ Code Value
		X12 Implementation Guide		X12 Implementation Guide
		Business Process Documentation	-	_ Business Process Documentation
•	DECO	MMENDATION		
3.	KECO	MMENDATION		
	SUMM	ARY: The Master Data Requireme	ents List c	contains the list of data elements used in

the use cases that were developed for PAP 03 and PAP 09 in the phase one



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Request Title: Master Data Requirements List for Business Practice Standards associated with

NIST PAP 03 and PAP 09

RECOMMENDED STANDARDS:

REQ.20.3 Smart Grid Standards Data Requirements Table

Introduction

This Business Practice Standard contains the list of data elements used in Business Practice Standards WEQ-016 and WEQ-018. Specific application of the data elements to a given use case contained in WEQ-016 and WEQ-018 are identified within the appropriate Business Practice Standard. This Business Practice Standard and data elements included herein are not intended to replace applicable Governing Documents, and in the event of a conflict, the latter documents shall have precedence over this standard.

REQ.20.3.1 Alphabetical Listing by Data Element Name

* Listing by Category ID and Category Element ID begins on page 46

		Ωк				W	/holesa	<u>le</u>		<u>Retail</u>	
<u>Category</u>	Category I	<u>Categor</u> <u>Element l</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
2-Location	<u>2</u>	<u>10</u>	Address1	Address line 1	-	_	_	<u>Y</u>	_	-	<u>Y</u>
2-Location	<u>2</u>	<u>11</u>	Address2	Address line 2	-	_	_	<u>Y</u>	_		<u>Y</u>



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
10-Ancillary Service Market	<u>10</u>	<u>16</u>	Ancillary Service Award - Cleared Price	Awarded Price	The market clearing price for the cleared ancillary service product MW.	1	_	<u>Y</u>	ı	-	-
10-Ancillary Service Market	<u>10</u>	<u>13</u>	Ancillary Service Award - End Time	End Time of the ancillary service Award	A Schedule is an ancillary service profile for a Resource for a future time period, by scheduling time interval.	-	_	<u>Y</u>	-	_	_
10-Ancillary Service Market	<u>10</u>	<u>14</u>	Ancillary Service Award - Interval Start Time	Start Time of the ancillary service Interval within the ancillary service Award and the ancillary service Value of the Time Interval	The start time of a specific ancillary service schedule interval	1	-	<u>Y</u>	ı	-	_
10-Ancillary Service Market	<u>10</u>	<u>15</u>	Ancillary Service Award - Interval Value	The awarded Value for the Time Interval within the ancillary service Award	The value associated with a specific ancillary service schedule interval	-	-	<u>Y</u>	-	-	-
10-Ancillary Service Market	<u>10</u>	<u>12</u>	Ancillary Service Award - Start Time	Start Time of the ancillary service Award	A Schedule is an ancillary service profile for a Resource for a future time period, by scheduling time interval.	1	_	<u>Y</u>	-	-	_
10-Ancillary Service Market	<u>10</u>	<u>0</u>	Ancillary Service Instruction ID	-	Unique identifier assigned to each ancillary service instruction.	1	-	<u>Y</u>	-	-	-
10-Ancillary Service Market	<u>10</u>	<u>20</u>	Ancillary Service Product Qualification Type	Type of Qualification	Examples include initial, requalification, etc.	-	_	<u>Y</u>	ı	_	-



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<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
10-Ancillary Service Market	<u>10</u>	<u>10</u>	Ancillary Service Product Type	Type of Ancillary Service product(s) the Resource is enrolling to provide	-	-	-	<u>Y</u>	_	_	Y
10-Ancillary Service Market	<u>10</u>	<u>22</u>	Ancillary Service Product Type Qualification Date	Date of Qualification of the Resource	-	-	-	<u>Y</u>	ı	1	-
10-Ancillary Service Market	<u>10</u>	<u>23</u>	Ancillary Service Product Type Qualified	Type of Ancillary Service Product(s) for which the Resource has Qualified	-	-	-	<u>Y</u>	1	1	-
10-Ancillary Service Market	<u>10</u>	<u>17</u>	Ancillary Service Schedule ID	-	Unique identifier assigned to each ancillary service schedule.	_	_	<u>Y</u>	-	1	-
6-Device and Qualification	<u>6</u>	<u>229</u> <u>4</u>	ANSI Compliance	ANSI standard with which the Meter complies	-	1	-	<u>Y</u>	-	1	-
1-General Asset / Resource	1	<u>30</u>	Asset Group ID	The identifier of a group of assets	An Asset Group is a logical entity that has a reportable interval-level consumption.	_	_	<u>Y</u>	_	-	<u>Y</u>
1-General Asset / Resource	<u>1</u>	<u>31</u>	Asset Group Name	Name of the aggregated group of assets	-	_	_	<u>Y</u>	Ī	1	<u>Y</u>
1-General Asset / Resource	1	<u>12</u>	Asset ID	The unique identifier of the asset	-	_	_	<u>Y</u>	1	1	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>83</u>	Asset Manufacture Date	Date of Manufacture of the Asset	-	_	_	1	1	1	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>80</u>	Asset	Manufacturer of the Asset	-	-	_	1	-	_	<u>Y</u>



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			Manufacturer								
6-Device and Qualification	<u>6</u>	<u>81</u>	Asset Model	Model identifier of the Asset, assigned by the Manufacturer	-	_	_	1	-	1	<u>Y</u>
2-Location	<u>2</u>	<u>51</u>	Asset Multiplier	Number of identical Assets within the Service Location	-	_	-	<u>Y</u>	_	_	-
1-General Asset / Resource	1	<u>13</u>	Asset Name	The name of the asset	-	_	-	<u>Y</u>	-	_	-
5-Business Entity Relationships	<u>5</u>	90	Asset Operator ID	The identifier of the business entity that operates the DR assets. This is the entity that has physical control of the asset and control of the capability to participate in DR Events.	-	-	-	-	-	-	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>91</u>	Asset Operator Name	The name of the business entity that operates the DR assets. This is the entity that has physical control of the asset and control of the capability to participate in DR Events.	-	-	_	_	-	_	Y



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<u>Category</u>	Category ID	Category Element ID	<u>Data Element</u>	Short Description	- <u>Long Description</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
5-Business Entity Relationships	<u>5</u>	92	Asset Owner ID	The Identifier of the business entity that owns the DR assets (entity that has the right to use or transfer use of the asset).	-	-	_	-	-	_	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>93</u>	Asset Owner Name	The Name of business entity that owns the DR assets (entity that has the right to use or transfer use of the asset).	-	1	-	-	1	_	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>84</u>	Asset Type	Type of Asset	Examples are: load reduction (curtailable or interruptible load), generation, combination, DG, renewable, storage, etc.	1	_	_	İ	-	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>82</u>	Asset Version	Model version identifier, assigned by the Manufacturer	-	1	-	_	-	-	<u>Y</u>
10-Ancillary Service Market	<u>10</u>	<u>33</u>	Base Load MW	Level of Load at time of dispatch	-	1	_	<u>Y</u>	_	_	_



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<u>9-Energy</u> <u>Market</u>	9	<u>20</u>	Base Point	Per-interval dispatch instruction	A Dispatch is a real-time instruction to a Resource to move to a Base Point at a specific time (Resource-Specific Deployment) or a set of real-time instructions to multiple Resources (Bulk Deployment). A Resoiurce-Specific Deployment is the deployment, via established Communication Methods initiated by the System Operator, of one or more discrete and/or unique Resources designated to provide a selected service.	1	-	Y	-	1	•
12-Event and Performance	<u>12</u>	21	Baseline Dates	Dates of days used to calculate the Energy Baseline	The Baseline Window is the window of time preceding, and optionally following, a Demand Response Event, over which electricity consumption data is collected for the purpose of establishing a Baseline. The applicability of this term is limited to Meter Before/Meter After, and Baseline Type-I and Type-II.	-	-	<u> </u>	-	1	Y
12-Event and Performance	<u>12</u>	<u>22</u>	Baseline Exclusion Dates	Dates of days Excluded from the calculation of the Energy Baseline	-	-	_	<u>Y</u>	1	_	<u>Y</u>
1-General Asset / Resource	1	<u>51</u>	Batch Load Flag	Flag set if the Resource is a Batch Load	-	-	-	Y	_	_	-
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>21</u>	Breaker Status	Status of the Breaker for the Resource	-	-	_	<u>Y</u>	_	_	-



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6-Device and Qualification	<u>6</u>	<u>45</u>	Breaker Status During Event	Status of the Breaker for the Service Location during an Emergency Event	-	_	_	<u>Y</u>	1	_	-
1-General Asset / Resource	<u>1</u>	<u>50</u>	Business Segment	SIC or NAICS code of the Service Location	-	_	_	<u>Y</u>	1	_	_
6-Device and Qualification	<u>6</u>	<u>43</u>	Capable of Synchronizing to Grid	Flag set if the Service Location is capable of Synchronizing to the Grid	-	-	-	<u>Y</u>	ı	-	-
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>991</u>	Capacity Comments	Comments associated with the Capacity market	-	-	_	<u> </u>	i	1	-
11-Capacity <u>Market</u>	11	<u>31</u>	Capacity Obligation Period	Period of time for which the Capacity Resource is Obligated	Examples include: month, season, year, etc.	_	_	<u>Y</u>	1	-	-
11-Capacity Market	<u>11</u>	<u>30</u>	Capacity Obligation Period Type	Type of Capacity Obligation Time Period within which the Resource is obligated	Examples are: All hours, Business hours 1, Business hours 2, Business Hours 3, Non- Business hours.	ı	-	<u>Y</u>	1	1	-
11-Capacity Market	11	<u>50</u>	Capacity Reference ID	Identifier assigned to the External System award	An Award is the selection of a Resource to provide energy, ancillary services, or capacity for a future time period. Expressed as a string.	-	-	<u>Y</u>	-	_	_
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>41</u>	Capacity Supply Obligation	Capacity Obligation	This may result from an auction or other clearing mechanism.	_	_	<u>Y</u>	_	_	-



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	- <u>Long Description</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
11-Capacity Market	11	<u>10</u>	Capacity Type	Type of Capacity	Capacity Service is a type of Demand Response service in which Demand Resources are obligated over a defined period of time to be available to deliver upon deployment by the System Operator or Service Provider. Examples: Hourly, Monthly, etc.	-	-	<u>Y</u>	-	-	Y
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>11</u>	Capacity Type description	Description of the Type of Capacity	-	_	-	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>12</u>	City	City	-	_	1	<u>Y</u>	-	1	<u>Y</u>
2-Location	<u>2</u>	<u>50</u>	Competitive Choice Area	Flag set if the Service Location is in an area with Competitive Choice	-	_	-	<u>Y</u>	_	_	-
<u>4-Grid</u> <u>Connection</u>	4	<u>12</u>	Connect Voltage	Voltage level	Voltage at connection.	ı	į	<u> Y</u>	-	1	1
2-Location	<u>2</u>	<u>72</u>	Connection Address	Address associated with the Connection Type	Example: Address of ICCP Connection, IP address	1	1	<u>Y</u>	-	-	-
2-Location	2	<u>71</u>	Connection Type	Additional type of connection associated with the Service Delivery Point	Example: ICCP Connection, IP address	1	1	<u>Y</u>	-	_	-
8-Offer Parameters	<u>8</u>	<u>72</u>	Constraint Interval	The timeframe over which the constraint type applies.	Typically daily, hourly, weekly, date	-	-	<u>Y</u>	-	_	<u>Y</u>



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<u>8-Offer</u> <u>Parameters</u>	8	<u>71</u>	Constraint Type	Type of operational, schedule or offer constraint	Types of operational, offer or schedule parameters. Examples include: Select Operational Minimum Runtime, Schedule Minimum Runtime, Operational Maximum Runtime, Schedule Maximum Runtime, Minimum Load, Maximum Load, Minimum Downtime, Minimum Starts, Maximum Energy, Maximum Starts, Time of Day schedule constraints, Black out date, Maximum consecutive days of participation, Maximum calls per day, Minimum Advanced Notification, Minimum duration of participation, etc.	-	-	Y	-	-	Y
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>73</u>	Constraint Value	Value of the Constraint Type and Interval	-	_	-	<u>Y</u>	ı	_	<u>Y</u>
<u>3-Contact</u>	<u>3</u>	<u>31</u>	Contact Address Data	Method-dependent Address of the Contact	This identifies specific information required for the contact method selected.	-	_	<u>Y</u>	-	_	_
<u>3-Contact</u>	<u>3</u>	<u>991</u>	Contact Comments	Comments associated with the Contact	-	_	-	<u>Y</u>	1	_	_
<u>3-Contact</u>	<u>3</u>	<u>30</u>	Contact Method	Method of communication with the Contact	This identifies the various types of communication options (phone, email, etc.) to be used.	_	_	<u>Y</u>	-	_	_
3-Contact	<u>3</u>	<u>32</u>	Contact Method Priority	Order in which a Communication Method should be selected for a Contact	A Communication Method is the medium by which an object communicates with another object for instruction, measurement, or control. The user specifies the sequence in which each medium is to be used when being contacted.	-	-	<u>Y</u>	-	_	-



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<u>3-Contact</u>	3	<u>23</u>	Contact Middle Name	Middle Name of the Contact	-	1	_	<u>Y</u>	_	1	_
3-Contact	<u>3</u>	<u>11</u>	Contact Priority	Order in which this Contact should be selected	This is used when multiple contacts are defined.	-	_	<u>Y</u>	-	1	-
3-Contact	% I	<u>10</u>	Contact Type	Interest code associated with a Contact	This is a classification defining the function a particular contact serves. It supports "who to call for what needs" decisions. Examples are: Primary, Secondary, Billing, Third Party, and Authorized Representative.	1	_	<u>Y</u>	-	1	_
2-Location	<u>2</u>	<u>15</u>	Country	Country	-	_	_	<u>Y</u>	_	_	<u>Y</u>



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12-Event and Performance	12	<u>51</u>	Criticality Level	This field defines the level of criticality of this event. The action taken by load control devices for an event can be solely based on this value, or combination with other Load Control Event fields supported by this device.	For example, additional fields such as Average Load Adjustment Percentage, Duty Cycle, Cooling Temperature Offset, Heating Temperature Offset, Cooling Temperature Set Point or Heating Temperature Set Point can be used in combination with the Criticality level. Criticality Level Level Description Participation 0 Reserved 1 Green Voluntary 2 1 Voluntary 3 2 Voluntary 4 3 Voluntary 5 4 Voluntary 5 4 Voluntary 6 5 Voluntary 7 Emergency Mandatory 8 Planned Outage Mandatory 9 Service Disconnect Mandatory OxOA to OxOF Utility Defined Utility Defined	-	-	-		-	Y
6-Device and Qualification	<u>6</u>	<u>291</u>	CT Ratio	Ratio of the Current Transformer	-	_	_	<u>Y</u>	-	_	-
14-Price and Product	<u>14</u>	<u>15</u>	Currency	Economic unit of exchange in which the total price and price components are stated (e.g. dollars, euros)	_	<u>Y</u>	-	_	<u>Y</u>	-	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>228</u>	Date of Last Meter Test	Date of Last Test of the Meter	-	_	_	<u>Y</u>	_	_	-



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7-Market / Program Enrollment	<u>7</u>	<u>31</u>	Day Ahead Flag	Flag set if the Resource will be participating in the Day-Ahead market	-	1	_	<u>Y</u>	-	_	-
14-Price and Product	<u>14</u>	<u>38</u>	Delivery Interval	The duration over which the product is available for physical consumption	_	<u>Y</u>	_	_	<u>Y</u>	_	<u>Y</u>
14-Price and Product	<u>14</u>	<u>37</u>	Delivery Time	Time at which the product is available for physical consumption	_	<u>Y</u>	_	_	<u>Y</u>	-	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>14</u>	Demand Response Controlling Entity	-	An identifier for the Service Provider issuing the DR event deployment instructions.	-	_	_	-	1	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>13</u>	Demand Response Provider	-	The entity that is responsible for delivering Demand reductions from Demand Resources and is compensated for providing such Demand Response products.	1	-	-	1	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>16</u>	Deployment MW	Absolute or relative Deployment quantity	Expressed as an absolute or relative (%) MW value.	-	-	<u>Y</u>	-	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>11</u>	Deployment Type	Type of Deployment	Examples are: Advanced (Normal), Immediate, Audit/Test	ı	_	<u>Y</u>		_	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>80</u>	Designated Dispatch Entity ID	Identifier assigned to the Designated Dispatch Entity	The Designated Dispatch Entity receives and processes Demand Resource Dispatch instructions or market information and may provide response information.	-	_	<u>Y</u>	-	_	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
5-Business Entity Relationships	<u>5</u>	<u>81</u>	Designated Dispatch Entity Name	Name of the Designated Dispatch Entity	-	ı	-	<u>Y</u>	ı	-	-
6-Device and Qualification	<u>6</u>	<u>70</u>	Device Class	-	Note: From SEP2.0 Enumeration representing the Device Class to apply the current Load Control Event. 0 HVAC compressor or furnace 1 Strip Heaters/Baseboard Heaters 2 Water Heater 3 Pool Pump/Spa/Jacuzzi 4 Smart Appliances 5 Irrigation Pump 6 Managed Commercial & Industrial (C&I) loads 7 Simple misc. (Residential On/Off) loads 8 Exterior Lighting 9 Interior Lighting 10 Electric Vehicle 11 Generation Systems 12 to 15 Reserved	1	-	1	1	-	Y
6-Device and Qualification	<u>6</u>	<u>991</u>	Distributed Generator Comments	Comments associated with the Distributed Generator	-	İ	-	<u>Y</u>	1	_	-



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
6-Device and Qualification	<u>6</u>	<u>32</u>	Distributed Generator Fuel Type	Type of Fuel consumed by the Distributed Generator	-	_	-	<u>Y</u>	ı	-	-
6-Device and Qualification	<u>6</u>	<u>34</u>	Distributed Generator Manufacturer	Manufacturer of the Distributed Generator	-	_	ı	Y	ı	ı	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>39</u>	Distributed Generator Name	Name of the Distributed Generator	-	_	-	<u>Y</u>	-	1	1
6-Device and Qualification	<u>6</u>	<u>33</u>	Distributed Generator Permit Type	Type of environmental authorization required to operate the Distributed Generator	The Environmental Authority is a regulatory authority responsible for the development, reporting, and enforcement of environmental activities.	_	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	<u>30</u>	Distributed Generator Type	Type of Distributed Generator	This technology characteristic of the Distributed Generator, such as combined cycle, induction, etc.	_	ı	<u>Y</u>	ı	1	ı
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>24</u>	DR Bus Load MW	Instantaneous Bus Load of a Demand Resource providing Ancillary Services	Demand is the rate at which electric energy is being used by the customer (NERC Definition). Expressed in MW. This element only applies to DR	_	_	<u>Y</u>	-	_	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
13-Direct Load Control	13	11	DR Control Command: Direct Load Control Type	The type of DR Direct Load Control Command: e.g. Set Point, Open/Close, Heating Temperature - offset/setpoint, Cooling Temperature - offset/setpoint, Load adjustment offset	-	_	_	-	-	_	Y
13-Direct Load Control	<u>13</u>	<u>12</u>	DR Control Command: Direct Load Control Value	Value associated with the Direct Load Control Type.	-	_	-	1	-	1	<u>Y</u>
1-General Asset / Resource	1	<u>22</u>	DR Resource Group	Grouping of Resources that can respond to the same DR signal		_	_	1	ı	ı	<u>Y</u>
3-Contact	<u>3</u>	<u>12</u>	DUNS Number	DUNS business number	-	_	_	<u>Y</u>	_	_	_
13-Direct Load Control	13	<u>13</u>	Duty Cycle	"Duty Cycle: Defines the maximum On state duty cycle as a percentage of time. Example, if the value is 80, the device would be in an "on state" for 80% of the time for the duration of the event. Range of the value is 0 to 100. A value of 0xFF indicates the field	-	-	-	1	-	-	Y



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<u>Category</u>	Category ID	Category Element ID	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
				is not used." (from SEP2.0)							
7-Market / Program Enrollment	<u>7</u>	<u>21</u>	Effective Enrollment Date	Effective Start Date for the Enrollment	Market Enrollment is the collection of enrollment or tariff data for a Demand Resource to provide a specific market product or service.	-	-	<u>Y</u>	-	-	<u>Y</u>
2-Location	<u>2</u>	<u>40</u>	Electrical Node ID	Identifier assigned to the Electrical Node at which the Service Location is connected	-	-	-	<u>Y</u>	1	-	<u>Y</u>
2-Location	<u>2</u>	<u>41</u>	Electrical Node Name	Name of the Electrical Node at which the Service Location is connected	-	1	_	<u>Y</u>	1	1	<u>Y</u>
2-Location	<u>2</u>	<u>42</u>	Electrical Node Type	Type of Electrical Node at which the Service Location is attached	-	1	_	<u>Y</u>	1	ı	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>24</u>	Energy Baseline Timestamp	Timestamp of Energy Baseline	-	1	_	<u>Y</u>	ı	1	<u>Y</u>



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<u>Category</u>	Category ID	Category Element ID	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	12	23	Energy Baseline Value	Calculated Energy Baseline	A Baseline is an estimate of the electricity that would have been consumed by a Demand Resource in the absence of a Demand Response Event. The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Modification Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real time or after the fact.	-	-	Y	1	_	Y
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>13</u>	Energy Schedule - Cleared MW Interval Value	The Energy Value of cleared MW for the Time Interval within the Energy Schedule	The offered energy MW that have cleared the market.	ı	-	<u>Y</u>	1	-	-
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>14</u>	Energy Schedule - Cleared Price	Awarded Price	The market clearing price for the cleared energy MW.	_	_	<u>Y</u>	-	_	_
9-Energy <u>Market</u>	<u>9</u>	<u>11</u>	Energy Schedule - End Time	End Time of the Energy Schedule	A Schedule is an energy profile for a Resource for a future time period, by scheduling time interval (typically hourly).	_	_	<u>Y</u>	ı	_	_
9-Energy <u>Market</u>	<u>9</u>	<u>12</u>	Energy Schedule - Interval Start Time	Start Time of the Energy Interval within the Energy Schedule	The start time of a specific energy schedule interval	_	-	<u>Y</u>	-	_	_
9-Energy <u>Market</u>	<u>9</u>	<u>10</u>	Energy Schedule - Start Time	Start Time of the Energy Schedule	A Schedule is an energy profile for a Resource for a future time period, by scheduling time interval (typically hourly).	-	_	<u>Y</u>	_	_	<u>Y</u>



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
7-Market / Program Enrollment	<u>7</u>	<u>25</u>	Enrollment End Date	Date of Termination of Enrollment	-	_	_	<u>Y</u>	_	_	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>22</u>	Enrollment Status	Status of the Enrollment for the Facility or Resource	Examples: Pending Enrollment, Approved Enrollment, Under Review, Denied, Separated	ı	-	<u>Y</u>	1	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>991</u>	Event & Performance comments	Comments associated with Event and Performance data	-	1	_	<u> </u>	-	ı	1
13-Direct Load Control	13	14	Event Control	Event Control options for randomized start or end times: 1= Randomize Start time, 0=Randomized Start not Applied 1= Randomize End time, 0=Randomized End not Applied. (from SEP2.0)	_	'	_	1	-	-	Y
12-Event and Performance	<u>12</u>	<u>12</u>	Event Day	Operating Date of Start of Event	-	-	-	<u>Y</u>	-	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>13</u>	Event Description	Description of the Event	-	_	_	<u>Y</u>	_	_	_



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12-Event and Performance	<u>12</u>	<u>18</u>	Event End Time	Time of End of deployment period	Release/Recall is the notification, sent from the System Operator or Service Demand Response Provider to the Demand Resource, that the Deployment Period has ended or announcing the time that it will end.	ı	-	<u>Y</u>	1	1	Y
12-Event and Performance	<u>12</u>	<u>10</u>	Event ID	Identifier assigned to the Event	An Event consists of the time periods, deadlines, and transitions during which Demand Resources perform. The System Operator shall specify the duration and applicability of a Demand Response Event. Some deadlines, time periods, and transitions may not be not applicable to all products or services.	-	-	Y	-	_	Y
12-Event and Performance	<u>12</u>	<u>19</u>	Event Modification Number	A modification number for the DR event. This is used to indicate if the DR Event has been modified by the Utility. Each time it is modified, this number is incremented.		-	-	Y	-	-	Y
12-Event and Performance	12	112	Event Modification Reason Code	The reason the event is being cancelled or modified.	-	_	_	<u>Y</u>	_	_	Y
12-Event and Performance	<u>12</u>	<u>14</u>	Event Start Time	Time of Start of deployment period for Event	The Deployment Period is the period of time from the Deployment to Release/Recall.	_	_	<u>Y</u>	_	_	<u>Y</u>



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	<u>12</u>	<u>17</u>	Event Status	Status of the Event	Examples include: inititiated, completed, etc.	-	_	Y	-	ı	<u>Y</u>
13-Direct Load Control	<u>13</u>	<u>15</u>	Exception Conditions	This is used to report that the load controller may not behave as commanded because of a variety of conditions including: • Faults in device • Customer override.		ı	-	1	1	-	<u>Y</u>
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>991</u>	External Entity Comments	Comments associated with the External Entity	-	-	_	<u>Y</u>	-	_	-
<u>3-Contact</u>	<u>3</u>	<u>21</u>	First Name	First Name of the Contact	-	ı	_	<u>Y</u>	-	_	-
1-General Asset / Resource	<u>1</u>	<u>41</u>	GenBillingID	Billing Identifier assigned to the Resource		1	_	<u>Y</u>	1	ı	ı
1-General Asset / Resource	1	<u>40</u>	<u>GenEMSID</u>	Alias or point Identifier assigned to the Resource	-	-	_	<u>Y</u>	-	_	-
1-General Asset / Resource	1	<u>991</u>	General Resource Comments	General comments associated with the Resource	-	1	_	<u>Y</u>	-	-	ı
<u>2-Location</u>	<u>2</u>	<u>20</u>	GPS Coordinates	<u>Latitude and longitude</u>	-	_	_	<u>Y</u>	_		<u>Y</u>
4-Grid Connection	<u>4</u>	<u>991</u>	Grid Connection Comments	Comments associated with the Grid Connection of the Resource	-	-	_	<u>Y</u>	-	_	-



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10-Ancillary Service Market	<u>10</u>	<u>11</u>	Have Engineering Diagram	Flag set if One-Line Diagrams have been submitted	-	-	-	<u>Y</u>	-	_	_
14-Price and Product	<u>14</u>	<u>13</u>	Identifier Source (product)	The Identifier Source references the product identification scheme for the Product Identifier.	_	<u>Y</u>	-	-	-	-	-
6-Device and Qualification	<u>6</u>	<u>37</u>	In-Service Date	Date the Distributed Generator became operational	-	-	_	<u>Y</u>	-	_	_
6-Device and Qualification	<u>6</u>	<u>36</u>	Installation Date of Distributed Generator	Date of Installation of the Distributed Generator	-	_	-	<u>Y</u>	-	_	-
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>0</u>	Instruction ID	-	Unique identifier assigned to each instruction.	_	-	<u>Y</u>	-	-	_
6-Device and Qualification	<u>6</u>	<u>41</u>	Interconnection Agreement Type	Type of Interconnection Agreement between the Distributed Generator or Service Location and the TDSP	-	-	-	<u>Y</u>	-	-	_
6-Device and Qualification	<u>6</u>	<u>42</u>	Interconnection Limits	Limits associated with the Interconnection of the Distributed Generator or Service Location	-	-	-	<u>Y</u>	-	_	-
3-Contact	<u>3</u>	<u>22</u>	<u>Last Name</u>	Last Name of the Contact	_	_	_	<u>Y</u>	_	_	_



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7-Market / Program Enrollment	<u>7</u>	<u>30</u>	Lead Time	Time between the advanced notification and deployment	Notification is the transmittal of a Deployment message.	1	_	<u>Y</u>	-	_	Y
13-Direct Load Control	<u>13</u>	<u>16</u>	Load Control State	The state of the load, which includes both commanded states and user settings. This may include a schedule of future states if a particular control algorithm for the load controller is being executed.		1	-	1	1	1	Y
12-Event and Performance	<u>12</u>	<u>113</u>	Load Level Value	Value of the load level to be achieved based on a set of enumerated values (e.g., moderate, high, etc.).		1	_	1	1	1	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>52</u>	Load Resource Control Device	Type of Control Device at a Service Location or deployed by a Response Method	-	I	-	<u>Y</u>	I	_	-
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>30</u>	Load Serving Entity ID	Identifier assigned to the LSE	The Load-Serving Entity serves end users and sells electric energy to end users.	1	İ	<u>Y</u>	1	_	ı
5-Business Entity Relationships	<u>5</u>	<u>31</u>	Load Serving Entity Name	Name of the LSE	-	-	_	<u>Y</u>	_	_	1



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2-Location	<u>2</u>	<u>991</u>	Location Comments	Comments associated with the Service Location	-	1	_	<u>Y</u>	1	1	-
4-Grid Connection	<u>4</u>	<u>10</u>	Loss Factor Type	Type of Loss Factor	-	_	_	<u>Y</u>	_	_	-
4-Grid Connection	<u>4</u>	<u>11</u>	Loss Factor Value	<u>Loss Factor</u>	Expressed as a decimal value.	_	_	<u>Y</u>	_	_	-
6-Device and Qualification	<u>6</u>	<u>35</u>	Manufactured Date of Distributed Generator	Date of Manufacturer of the Distributed Generator	-	-	-	<u>Y</u>	-	_	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>12</u>	Market	Type of wholesale market	-	1	_	<u>Y</u>	1	1	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>40</u>	Market Clearing Day	Market Clearing Day of the Offer	-	-	-	<u>Y</u>	_	_	_
7-Market / Program Enrollment	<u>7</u>	<u>991</u>	Market Enrollment Comments	Comments associated with the Enrollment	-	I	_	<u>Y</u>	1	_	-
7-Market / Program Enrollment	<u>7</u>	<u>13</u>	Market Product	Market Product	Product types include the following: energy, capacity, regulation, operating reserves (spinning or non-spin).	1	-	<u>Y</u>	-	_	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>28</u>	Maximum Error	Error of the Meter, including end-to-end Maximum Error	-	-	_	<u>Y</u>	_	_	-



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
6-Device and Qualification	<u>6</u>	229 <u>3</u>	Measurement Interval	Interval of time between Measurement readings	This is the time between electricity meter recordings. The Measurement records the consumption or supply of an End Device. An End Device is a physical end-use device that consumes or supplies electricity.	-	_	Y	-	-	_
12-Event and Performance	<u>12</u>	<u>32</u>	Measurement Value (CIM)	Value of the interval reading	-	_	-	<u>Y</u>	-	-	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>31</u>	Measurement Value Timestamp (CIM)	The time when the value was last updated	-	_	_	Y	1	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>34</u>	Measurement Value Type	The type of measurement value.	The Measurement Value Type identifies the type of information provided in the Measurement Value. For example, the Measurement Value type could be energy (kWh/MWh) or demand (KW or MW).	ı	_	Y	ı	ı	_
6-Device and Qualification	<u>6</u>	<u>26</u>	Meter Accuracy Class	Accuracy Class of the Meter	-	-	_	<u>Y</u>	-	ı	-
6-Device and Qualification	<u>6</u>	<u>229</u> <u>6</u>	Meter Asset Comments	Comments associated with the Meter Asset	-	_	_	<u>Y</u>	ı	_	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>60</u>	Meter Authority ID	Identifier assigned to the Metering Authority	The Metering Authority provides electric usage data necessary to determine the performance of a Resource.	_	_	<u>Y</u>	_	_	_
<u>5-Business</u> <u>Entity</u>	<u>5</u>	<u>61</u>	Meter Authority Name	Name of the Metering Authority	-	_	_	<u>Y</u>	_	_	-



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>Relationships</u>											
6-Device and Qualification	<u>6</u>	<u>10</u>	Meter Configuration	Configuration of the Meter at the Facility	The CIM defines the Mater as the physical asset that performs the metering role of the ServiceDeliveryPoint. It is used for measuring consumption and detecting events.	ı	_	<u>Y</u>	-	ı	_
6-Device and Qualification	<u>6</u>	<u>224</u>	Meter Correction Factors	Device-specific Factors used to adjust for atmospheric changes at the point of installation of the Meter	-	-	-	<u>Y</u>	-	_	_
6-Device and Qualification	<u>6</u>	<u>227</u>	Meter Device QA Plan	Quality Assurance plan for maintenance and testing of the Meter	-	_	_	<u>Y</u>	-	1	_
6-Device and Qualification	<u>6</u>	<u>20</u>	Meter ID	Identifier assigned to the Meter	-	_	_	<u>Y</u>	1	-	-
6-Device and Qualification	<u>6</u>	<u>221</u>	Meter Installation Date	Date of Installation of the Meter	-	-	_	<u>Y</u>	1	_	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>50</u>	Meter Installation Provider ID	Identifier assigned to the Meter Installation Provider	-	_	_	<u>Y</u>	ı	_	_
5-Business Entity Relationships	<u>5</u>	<u>51</u>	Meter Installation Provider Name	Name of the Meter Installation Provider	This is the competitive meter entity for the meter device.	-	_	<u>Y</u>	-	_	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
6-Device and Qualification	<u>6</u>	223	Meter Installer License	Professional License Number of the Installer of the Meter	-	_	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	<u>27</u>	Meter Loss Compensation	Line Losses included in the Meter	-	_	-	<u>Y</u>	_	-	-
6-Device and Qualification	<u>6</u>	<u>22</u>	Meter Manufacturer	Manufacturer of the Meter	-	_	_	<u>Y</u>	1	_	_
6-Device and Qualification	<u>6</u>	<u>23</u>	Meter Model	Model of the Meter	-	-	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	<u>25</u>	Meter Multiplier (kH)	Multiplier used to convert pulses into power units	-	_	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	<u>229</u> <u>5</u>	Meter Owner	Owner of the Meter	-	-	_	<u>Y</u>	ı	-	_
6-Device and Qualification	<u>6</u>	<u>29</u>	Meter Phase	Specific Phase information	-	-	_	<u>Y</u>	1	_	_
6-Device and Qualification	<u>6</u>	<u>229</u>	Meter Qualification Date	Date of Qualification of the Meter by the Metering Authority or System Operator	-	-	-	<u>Y</u>	ı	-	-
6-Device and Qualification	<u>6</u>	<u>24</u>	Meter Rating	Load Rating of the Meter	-	-	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	225	Meter Test Criteria	Test Criteria required to qualify the installation of the Meter	-	_	_	<u>Y</u>	-	-	-



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<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
6-Device and Qualification	<u>6</u>	<u>226</u>	Meter Test Frequency	Frequency of Tests of the Meter	Expressed in months.	1	_	<u>Y</u>	ı	1	_
6-Device and Qualification	<u>6</u>	<u>229</u> <u>1</u>	Meter Test Results	Results of Tests of the Meter	These are specific to the meter type.	1	_	<u>Y</u>	1	1	_
6-Device and Qualification	<u>6</u>	<u>21</u>	Meter Type	Type of Meter installed at the Facility	Examples: RTU, CT/PT, etc.	_	_	<u>Y</u>	_	1	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>21</u>	Min Gen MW	Minimum MW available for dispatch	When required as part of an enrollment request, this value acts as a default.	_	_	<u>Y</u>	-	-	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>22</u>	MinGenCost	The cost per hour for each Min Gen MW value.	The cost per hour for each MinGenMW value.	_	_	<u>Y</u>	_	-	<u>Y</u>
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>40</u>	Minimum Payment Nomination	Strike price for the economic dispatch of the energy component of the capacity program	Expressed in Price/MW.	ı	-	<u>Y</u>	ı	1	-
6-Device and Qualification	<u>6</u>	<u>31</u>	Nameplate Rating	Manufacturer's output rating of the Distributed Generator	-	-	_	<u>Y</u>	-	1	_
0-Common Message Parameters	<u>0</u>	<u>20</u>	NERC CIP Security - Availability	CIP Security Classification for Availability	-	_	_	<u>Y</u>	_	_	_
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>21</u>	NERC CIP Security - Confidentiality	CIP Security Classification for Confidentiality	-	-	-	<u>Y</u>	-	_	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
0-Common Message Parameters	<u>0</u>	<u>22</u>	NERC CIP Security - Integrity	CIP Security Classification for Integrity	-	_	_	<u>Y</u>	-	-	-
2-Location	<u>2</u>	<u>60</u>	NERC Control Area	The NERC control area of the resource	-	-	_	<u>Y</u>	_	_	-
11-Capacity Market	<u>11</u>	<u>23</u>	Nominal Capacity	Nominated load	Expressed as a decimal value.	_	-	<u>Y</u>	-	ı	<u>Y</u>
6-Device and Qualification	<u>6</u>	44	Normal Breaker Status	Status of the Breaker for the Service Location under Normal operating conditions	Normal Operations is the time following Release/Recall during which a System Operator or Service Provider may require a Demand Resource to have returned its Load consumption to normal levels and to be available again for Deployment.	-	-	Y	-	-	_
6-Device and Qualification	<u>6</u>	<u>38</u>	Normal Load Rating	Average load picked up by the Distributed Generator during the applicable performance hours	-	-	_	<u>Y</u>	ı	-	-
12-Event and Performance	<u>12</u>	<u>111</u>	Notification Acknowledgement	This is an acknowledgement of the receipt of a DR notification or dispatch. It should include any necessary provisions for non-repudiation.	-	-	-	Y	-	_	Y



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<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>38</u>	Offer Commit Status	Commitment status of offer	Product-specific commitment status types included with offer. Examples include: economic, emergency, must-run, not participating, outage run status, override status, etc.	ı	-	<u>Y</u>	-	_	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	8	<u>39</u>	Offer Dispatch Status	Dispatch Status of Offer	Product-specific commitment status types included with offer. Examples include: economic, emergency, not participating, not qualified, and self-schedule. May also be used to temporarily opt out of DR Events and to override the normal operational constraints. The opt-out can be specified using the following criteria: All events in a program indefinitely (unspecified time period) Specific DR Event All events in a specific time period. Other triggered programs for which an asset or DR resource is already called upon (reduce double counting of available capacity)	-	_	Y	-	-	Y
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>30</u>	Offer Dispatch Type	Type of Offer	Examples are Flexible (resource follows basepoint signals) or Fixed (resource requests DA commitment and RT schedules of 15 minutes or greater)	İ	_	<u>Y</u>	1	-	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>36</u>	Offer Expiration Date	Date of Expiration of the Offer	This applies to DAM only.	_	_	<u>Y</u>	_	_	_



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<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>12</u>	Offer Limit Interval	Offer Limit Interval	The period over which the offer limit applies, i.e., hour, day, etc.	-	_	<u>Y</u>	1	ı	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>11</u>	Offer Limit Type	Type of Offer Limit	The limit may be associated with the bidding parameters of a resource. These may include limit types such as seasonal rating, reasonability, economic and ramp limits.	1	_	<u>Y</u>	1	1	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>10</u>	Offer Limit Value	Offer Limit Value	Expressed in MW or hours. Multiple Limit Types are applicable.	_	_	<u>Y</u>	-	ı	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	331	Offer Price Curve Slope	Flag to smoothe offer segments from step function to slope	-	_	_	<u>Y</u>	_	_	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>33</u>	Offer Segment Hour	Hour of Segment of the Offer	NOTE: When required as part of an enrollment request, this value becomes the default.	-	_	<u>Y</u>	1	1	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>31</u>	Offer Segment MW	Energy of Segment of the Offer	The end value of the offer step, monotonically increasing, expressed in MW (NOTE: When required as part of an enrollment request, this value becomes the default)	-	_	Y	-	_	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>32</u>	Offer Segment Price	Price of Segment of the Offer	NOTE: When required as part of an enrollment request, this value becomes the default.	1	ı	<u>Y</u>	1	1	-
12-Event and Performance	<u>12</u>	<u>15</u>	Operator Comment	Additional Event information provided by the Operator	-	1	ı	<u>Y</u>	1	_	-
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>23</u>	Output MVAR	Reactive Power Output of the Distributed Generator	Expressed in Mvar	_	_	<u>Y</u>	-	_	-



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<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>22</u>	Output M¥/	Real Power Output of the Distributed Generator	Expressed in MW	-	_	<u>Y</u>	-	_	-
14-Price and Product	<u>14</u>	<u>30</u>	Override Unit of Measure	Optional Attribute of Price object If this is used, then Unit of Measure is not applicable	-	<u>Y</u>	-	ı	1	_	_
6-Device and Qualification	<u>6</u>	<u>11</u>	Parent Meter id	Flag set if the Meter is a Master or Parent Meter	-	-	_	<u>Y</u>	ı	1	-
11-Capacity Market	<u>11</u>	<u>22</u>	Peak Date/Time	Date and Time of measurement of Peak	-	_	_	<u>Y</u>	_	-	_
11-Capacity Market	<u>11</u>	<u>21</u>	Peak Type	Type of measurement of Peak	Examples are: Annual, Monthly, Weekly, and Seasonal.	-	_	<u>Y</u>	_	1	-
11-Capacity Market	<u>11</u>	<u>20</u>	Peak Value	Measurement of Peak	-	_	_	<u>Y</u>	_	_	-
7-Market / Program Enrollment	<u>7</u>	<u>51</u>	Performance Evaluation Method	Method used to Evaluate the Performance of a Resource	Based on NAESB M&V terms.	-	_	<u>Y</u>	-	_	-
7-Market / Program Enrollment	<u>7</u>	<u>50</u>	Performance Evaluation Method Type Code	Code representing the Type of Measurement	-	-	-	<u>Y</u>	-	_	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>20</u>	Physical Min Gen	Minimum Operating Level of a Resource	-	_	_	<u>Y</u>	_	_	<u>Y</u>



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2-Location	<u>2</u>	<u>43</u>	PNode	Name of the Price Node associated with the Service Location	The P-Node is the price location of the Service Location in the transmission and/or distribution network.	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>44</u>	PNode ID	Identifier assigned to the Price Node associated with the Service Location	-	_	_	<u>Y</u>	ı	_	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>50</u>	Portfolio Name	Name of an aggregation of Resources for market participation	-	_	-	<u>Y</u>	_	_	_
14-Price and Product	<u>14</u>	<u>33</u>	Price Component Type	The portion of the price to which the corresponding value applies.	Examples: Energy, congestion, losses	<u>Y</u>	-	_	-	_	_
14-Price and Product	<u>14</u>	<u>34</u>	Price Component Value	The value of the price component.	_	<u>Y</u>	-	_	-	-	_
14-Price and Product	<u>14</u>	<u>35</u>	Price Location	The location at which the price is applicable.	_	<u>Y</u>	_	_	_	_	_
14-Price and Product	<u>14</u>	<u>36</u>	Price Type	Time characteristic of the price	The type of price (day-ahead, real-time, etc.).	<u>Y</u>	-	_	1	_	_
6-Device and Qualification	<u>6</u>	<u>47</u>	Private Use Network	Flag set if the Resource is an Electric Network connected to the transmission grid	This is used for load that is typically netted with internal generation.	_	_	<u>Y</u>	-	-	-
14-Price and Product	<u>14</u>	<u>20</u>	Product Identifier	Identifies specific product associated with the price	_	<u>Y</u>	_	_	<u>Y</u>	_	_



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14-Price and Product	<u>14</u>	<u>10</u>	Product Name	Same as 7.13 Market Product	An identifier for a particular electricity product offering: energy, capacity, ancillary services, etc.	<u>Y</u>	_	_	1	_	_
14-Price and Product	<u>14</u>	<u>31</u>	Product Price	The sum of all Price Component Values for a given product (Total Price).	_	Y	_	ı	1	_	<u>Y</u>
14-Price and Product	<u>14</u>	<u>32</u>	Product Price Factor	Terms of use attribute of Product Price	Examples: Price absolute, Price relative, Price multiplier	<u>Y</u>	_	1	<u>Y</u>	-	_
14-Price and Product	<u>14</u>	<u>12</u>	Product Sub-type	Used to further define product types	_	<u>Y</u>	-	_	<u>Y</u>	_	-
14-Price and Product	<u>14</u>	<u>11</u>	Product Type	Defines the source and product	Classifications used within industry for trading energy. Examples: PJM Energy, NYISO 10-min Spin, etc.	<u>Y</u>	_	_	-	_	<u>Y</u>
7-Market / Program Enrollment	<u>z</u>	<u>10</u>	Program ID	Program Identifier	The identifier of the program	_	-	<u>Y</u>	-	1	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>11</u>	Program Name	Name of the Program	-	-	_	<u>Y</u>	1	1	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>222</u>	PT Ratio	Ratio of the Potential Transformer	-	_	-	<u>Y</u>	-	-	-
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>24</u>	Qualified Capacity	Nominal ICAP derated for performance	Derated based on past performance.	_	-	<u>Y</u>	_	_	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>25</u>	Ramp Rate Direction	Direction of the selected Ramp Rate Type and Ramp Rate Segment	Valid directions are: Upward, Downward, Both.	-	_	<u>Y</u>	-	_	<u>Y</u>



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8-Offer Parameters	<u>8</u>	<u>24</u>	Ramp Rate Segment	Energy of Segment of the Ramp Rate	The end value of the Ramp Rate step, monotonically increasing or decreasing (as indicated by the Ramp Rate Direction), expressed in MW (NOTE: When required as part of an enrollment request, this value becomes the default)	1	-	<u>Y</u>	-	-	Y
<u>8-Offer</u> <u>Parameters</u>	<u>88</u>	<u>23</u>	Ramp Rate Type	Type of Ramp Rate	Examples are: Normal, Emergency, Regulation.	1	_	<u>Y</u>	1	-	<u>Y</u>
8-Offer Parameters	<u>8</u>	<u>26</u>	Ramp Rate Value	Ramp Rate associated with the selected Ramp Rate Type for the selected Ramp Rate Segment and Ramp Rate Direction	The NERC definition of Ramp Rate is the rate, expressed in megawatts per minute, by which a generator changes its output. For a Demand Resource, the Ramp Rate is the rate, expressed in megawatts per minute, by which a Demand Resource changes its Load.	-	-	Y	-	-	Y
7-Market / Program Enrollment	<u>Z</u>	<u>32</u>	Real Time Flag	Flag set if the Resource will be participating in the Real-Time market	-	-	_	<u>Y</u>	-	_	_



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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
10-Ancillary Service Market	<u>10</u>	<u>32</u>	Regulation Base Point	Per-interval Regulation dispatch instruction	Regulation Service is a type of Demand Response service in which a Demand Resource corrects for short-term changes in electricity use that might affect the stability of the power system, matching generation and load to maintain a desired frequency. Demand Resources providing Regulation Service are subject to dispatch continuously during a commitment period. Provision of Regulation Service does not correlate to Demand Response deployment terms of the Event timelines, deadlines and durations.	-	-	Y	-	-	-
0-Common Message Parameters	<u>0</u>	<u>13</u>	Rejection Code Type	Type of rejection message	Rejection code type is categorizing the different kinds of rejection messages associated with enrollment, qualification, offers or meter data. May be combined with comments to provide details beyond the type of rejection.	-	-	<u>Y</u>	1	-	_
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>14</u>	Rejection Code Value	Code referring to the reason for a rejection message	Rejection code related to the type of rejection. May be combined with comments to provide details beyond the type of rejection.	-	_	<u>Y</u>	-	1	_
12-Event and Performance	<u>12</u>	<u>30</u>	Reporting Interval	Interval size required for Reporting	-	_	_	<u>Y</u>	-		<u>Y</u>
10-Ancillary Service Market	<u>10</u>	<u>24</u>	Requalification Requirement	Flag set if Requalification is Required	-	_	_	<u>Y</u>	_	_	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
7-Market / Program Enrollment	<u>7</u>	<u>26</u>	Requalification Test Date	Date the Resource will retest its ability to deliver a product or service	-	-	-	<u>Y</u>	_	_	<u>Y</u>
10-Ancillary Service Market	<u>10</u>	<u>31</u>	Reserve Pickup Flag	Flag set if this is a Reserve Pickup schedule	Reserve Service is a type of Demand Response service in which Demand Resources are obligated to be available to provide Demand reduction Energy Service, based on reserve capacity requirements that are established to meet applicable reliability standards. Reserve Services are defined by short-term response rates (Ramp Period) and synchronization with the electricity grid (i.e., spinning and non-spinning reserves).	-	_	Y	-	_	-
1-General Asset / Resource	1	<u>20</u>	Resource ID	Identifier assigned to the Resource	A Resource may be an individual asset or a group of assets that represent a dispatchable entity.	-	_	<u>Y</u>	_	_	<u>Y</u>
1-General Asset / Resource	1	<u>21</u>	Resource Name	Name of the Resource	-	-	_	<u>Y</u>	_	_	_
7-Market / Program Enrollment	<u>7</u>	<u>24</u>	Resource Qualification Test Date	Date the Resource demonstrated its ability to deliver a product or service	-	1	-	<u>Y</u>	_	_	Y
7-Market / Program Enrollment	<u>7</u>	<u>23</u>	Resource Type	Type of Resource	Examples are: load reduction (curtailable or interruptible load), distributed generation, combination, renewable, storage, etc.	1	_	<u>Y</u>	_	_	<u>Y</u>
7-Market / <u>Program</u>	<u>7</u>	<u>41</u>	Response Method ID	Identifier assigned to the Response Method	-	-	_	<u>Y</u>	_	_	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> Element ID	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
Enrollment											
7-Market / Program Enrollment	<u>z</u>	<u>42</u>	Response Method Name	Name of the Response Method	-	1	ı	<u>Y</u>	ı	1	_
7-Market / Program Enrollment	<u>z</u>	<u>40</u>	Response Method Type	Type of Response Method	Expressed as a response type code	1	_	<u>Y</u>	-	1	_
7-Market / Program Enrollment	<u>7</u>	<u>43</u>	Response Method Value	Value of the Response Method	The Demand Response Value is the quantity of modified electrical consumption by a Demand Resource, expressed as MW.	-	_	<u>Y</u>	-	1	_
7-Market / Program Enrollment	7	<u>34</u>	Response Time	The amount of time before an asset/resource is capable of meeting its full performance, in response to a request by a Service Provider to shed load.	-	1	-	-	'	-	Y
12-Event and Performance	<u>12</u>	<u>33</u>	Response Value	Response	-	-	_	<u>Y</u>	1	İ	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>44</u>	Retail Rate	Retail Rate	Expressed as Price per kWh	1	_	<u>Y</u>	_	_	_
5-Business Entity Relationships	<u>5</u>	<u>41</u>	Retail Rate Code	Code representing the Retail Rate for the Service Location	-	_	_	<u>Y</u>	_	_	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
5-Business Entity Relationships	<u>5</u>	<u>43</u>	Retail Rate Description	Description of the Retail Rate	This can also be used for comments associated with the Retail Rate.	1	_	<u>Y</u>	_	_	-
5-Business Entity Relationships	<u>5</u>	<u>40</u>	Retail Rate ID	Identifier assigned to the Retail Rate	-	ı	-	<u>Y</u>	_	_	-
5-Business Entity Relationships	<u>5</u>	<u>42</u>	Retail Rate Name	Name of the Retail Rate for the Service Location	-	_	-	<u>Y</u>	_	_	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>42</u>	Schedule Description	Description of the Offer	-	-	_	<u>Y</u>	ı	_	ı
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>15</u>	Schedule ID	-	Unique identifier assigned to each schedule.	1	-	<u>Y</u>	_	1	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>41</u>	Schedule Name	Name or tag of the Offer	-	_	_	<u>Y</u>	_	ı	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>43</u>	Schedule Status	Status of the Offer	-	_	_	<u>Y</u>	_	1	-
5-Business Entity Relationships	<u>5</u>	<u>70</u>	Scheduling Entity ID	Identifier assigned to the Scheduling Entity	A Scheduling Entity submits bids and/or offers and receives Schedules and Awards.	-	-	<u>Y</u>	-	_	-
5-Business Entity Relationships	<u>5</u>	<u>71</u>	Scheduling Entity Name	Name of the Scheduling Entity	-	ı	_	<u>Y</u>	_	_	-



For Quadrant: REQ

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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
7-Market / Program Enrollment	7	<u>33</u>	Self-Schedule Flag	Flag set if the Resource is Self-Deploying	Self-Deployment is the Deployment via established Communication Methods initiated by the Service Provider or the Resource.	-	_	Y	1	-	_
1-General Asset / Resource	<u>1</u>	<u>10</u>	Service Location ID	Identifier assigned to the Service Location	The location at which connection to the transmission or distribution system is made.	_	_	<u>Y</u>	1	_	<u>Y</u>
1-General Asset / Resource	<u>1</u>	<u>11</u>	Service Location Name	Name of the Service Location	-	-	_	<u>Y</u>	-	-	-
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>11</u>	Service Provider ID	Identifier assigned to the Service Provider	The Service Provider coordinates Resources to deliver electricity products and services to a market or distribution operator.	_	-	<u>Y</u>	-	_	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>12</u>	Service Provider Name	Name of the Service Provider	-	_	-	Y	-	_	_
<u>9-Energy</u> <u>Market</u>	9	<u>25</u>	Set Point	Final dispatch target level	The real-time desired MW output signal calculated for a specific Resource by the Transmission Provider's control system on a specified periodicity that is equal to the current Energy Dispatch Target plus the Regulating Reserve Deployment instruction (which may be positive or negative) plus an adjustment to the Energy Dispatch Target to account for Contingency Reserve Deployment Instructions. The Setpoint Instruction represents the desired output level of the Resource.	-	-	Y	-	-	-



For Quadrant: REQ

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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- <u>Long Description</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	12	<u>50</u>	Simple Signal Levels	Used as an alternate and simplified representation of the DR signal, whether it be price based or a dispatch. Takes on a small number of finite levels such as NORMAL, MODERATE, and HIGH, SPECIAL	-	-	_		-	-	Y
14-Price and Product	14	<u>40</u>	Source Location Identifier	The identifier of the source location of the product for which the price applies	_	<u>Y</u>	_	1	<u>Y</u>	_	_
14-Price and Product	<u>14</u>	<u>41</u>	Source Location Identifier Type	The type of source location of the product for which the price applies	_	<u>Y</u>	-	1	1	1	-
8-Offer Parameters	<u>8</u>	<u>34</u>	Startup Cost	Cost of starting a response activity	NOTE: When required as part of an enrollment request, this value becomes the default.	_	_	<u>Y</u>	_	_	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>37</u>	Startup Cost Type	Type of startup cost	The type of Start Up Cost included in the offer. Options may include: Select cold, intermediate, hot or shutdown.	ı	-	<u>Y</u>		-	-
2-Location	2	<u>13</u>	State/Province	State or Province two- letter code	-	-	_	<u>Y</u>	_	_	<u>Y</u>
13-Direct Load Control	<u>13</u>	<u>10</u>	Status Check	A signal to require the DR resource status to be sent back.	-	1	_	1	1	-	<u>Y</u>



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
				(Only applicable to Direct Load Control)							
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>35</u>	Strike Price	Threshold Price	Expressed as a decimal value of price/MW.	ı	-	<u>Y</u>	i	_	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>332</u>	Strike Price Type	Type of strike price	Indicates the type of strike price. Options may include: buy or sell.	ı	_	<u>Y</u>	1	_	-
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>o</u>	<u>10</u>	Submittal Date	Timestamp for the sender's use	-	ı	_	<u>Y</u>	ı	_	-
<u>O-Common</u> <u>Message</u> <u>Parameters</u>	<u>o</u>	<u>11</u>	Submitted By	<u>User ID of submitter</u>	Common data element to indicate the user ID of the entity submitting the data	-	_	<u>Y</u>	_	_	-
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>12</u>	Submitted Error	ID of submission error detected	Common data element to capture any errors or exceptions during submission	-	_	<u>Y</u>	-	ı	ı
10-Ancillary Service Market	<u>10</u>	<u>21</u>	Synchronization Test Date	Target Date of Test of Synchronization to the grid	-	-	_	<u>Y</u>	-	_	-
<u>3-Contact</u>	<u>3</u>	<u>13</u>	Third Party	Flag set if the Contact is a third-party entity	-	_	_	<u>Y</u>		_	-
2-Location	<u>2</u>	22	Time Zone Name	Name of the Time Zone in which the Service Location is located	-	-	_	<u>Y</u>	-	_	_
<u>3-Contact</u>	<u>3</u>	<u>20</u>	<u>Title</u>	<u>Title of the Contact</u>	-	_	_	<u>Y</u>	_	_	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

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<u>Category</u>	Category ID	<u>Category</u> Element ID	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
5-Business Entity Relationships	<u>5</u>	<u>22</u>	Transmission / Distribution Service Provider Account Number	Transmission / Distribution Service Provider's account number for the Resource	-	-	_	<u>Y</u>	1	_	Y
5-Business Entity Relationships	<u>5</u>	<u>20</u>	Transmission / Distribution Service Provider ID	Identifier assigned to the Transmission / Distribution Service Provider	The Transmission / Distribution Service Provider operates a local electricity transmission and/or distribution system.	-	-	<u>Y</u>	-	_	-
5-Business Entity Relationships	<u>5</u>	<u>21</u>	Transmission / Distribution Service Provider Name	Name of the Transmission / Distribution Service Provider	-	-	-	<u>Y</u>	1	_	_
6-Device and Qualification	<u>6</u>	<u>51</u>	UFR Settings	Setting of the Under- Frequency Relay	-	-	_	<u>Y</u>	_	_	_
14-Price and Product	<u>14</u>	<u>14</u>	Unit of Measure	Attribute of Product Identifier	-	<u>Y</u>	_	1		_	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>52</u>	Usage Information	Information about the near real time electricity usage of the DR Resource.	-	_	_	-	-	-	<u>Y</u>



For Quadrant: REQ

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
6-Device and Qualification	<u>6</u>	229 2	VEE Compliance	Compliance standard for Validation, Editing, and Estimation	Validation, Editing, and Estimation is the process of taking raw meter data and performing validation and, as necessary, editing and estimation of corrupt or missing data, to create validated data. VEE guidelines are published in the Edison Electric Institute's Uniform Business Practices for Unbundled Electricity Metering, Volume Two, Published 12/05/00, http://www.naesb.org/REQ/req_form.asp.	-	_	Y	-	_	-
7-Market / Program Enrollment	<u>7</u>	<u>44</u>	Verified Capability	Audited Capability	Auditing is the validation of performance, conducted by the System Operator, of certain Response Aggregation Methods AFTER the Enrollment process.	ı	-	<u>Y</u>	-	_	-
7-Market / Program Enrollment	<u>z</u>	<u>45</u>	Verified Capability Factor	Ratio of the Verified Capability to the qualified capability	Qualification is the validation of performance, conducted by the System Operator, of certain Response Aggregation Methods DURING the Enrollment process.	ı	-	<u>Y</u>	ı	-	-
2-Location	<u>2</u>	<u>21</u>	Weather Station	Weather Station code associated with the Service Location	-	- 1	ı	<u>Y</u>	ı	_	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>46</u>	Wholesale Delivery Point Status	Flag set if the Service Location is metered at the Wholesale level	-	1	_	<u>Y</u>	-	_	_
2-Location	<u>2</u>	<u>14</u>	Zip/Postal Code	Zip or Postal Code	-	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>31</u>	Zone	Name of the Zone in which the Service Location is	A Zone is a physical or electrical region.	_	_	<u>Y</u>	_	_	<u>Y</u>



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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	<u>Category I</u>	<u>Categor</u> <u>Element</u> l	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
				located							
2-Location	<u>2</u>	<u>30</u>	Zone ID	Identifier assigned to the Zone in which the Service Location is located	-	-	-	<u>Y</u>	1	-	<u>Y</u>
2-Location	<u>2</u>	<u>32</u>	Zone Type	Type of Zone	Examples: Capacity, Dispatch, Price, Load, etc.	-	1	<u>Y</u>	1	1	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

NIST PAP 03 and PAP 09

Listing by Category ID and Category Element ID

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<u>Category</u>	Category ID	Category Element ID	Data Element	- Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>		Common Message	<u>e Parameters</u>							-
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>10</u>	Submittal Date	Timestamp for the sender's use	-	_	1	<u>Y</u>	ı	_	_
O-Common Message Parameters	<u>o</u>	<u>11</u>	Submitted By	<u>User ID of submitter</u>	Common data element to indicate the user ID of the entity submitting the data	_	_	<u>Y</u>	-	_	_
O-Common Message Parameters	<u>o</u>	<u>12</u>	Submitted Error	ID of submission error detected	Common data element to capture any errors or exceptions during submission	_	_	<u>Y</u>	_	_	-
0-Common Message Parameters	<u>0</u>	<u>13</u>	Rejection Code Type	Type of rejection message	Rejection code type is categorizing the different kinds of rejection messages associated with enrollment, qualification, offers or meter data. May be combined with comments to provide details beyond the type of rejection.	-	-	<u>Y</u>	-	-	_
0-Common Message Parameters	<u>0</u>	<u>14</u>	Rejection Code Value	Code referring to the reason for a rejection message	Rejection code related to the type of rejection. May be combined with comments to provide details beyond the type of rejection.	_	_	<u>Y</u>	-	_	_



For Quadrant: REQ

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Request Title: Master Data Requirements List for Business Practice Standards associated with

		7				W	'holesa	<u>le</u>		<u>Retail</u>	
<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>20</u>	NERC CIP Security - Availability	CIP Security Classification for Availability	-	İ	_	<u>Y</u>	1	1	-
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>21</u>	NERC CIP Security - Confidentiality	CIP Security Classification for Confidentiality	-	1	ı	<u>Y</u>	-	1	-
<u>0-Common</u> <u>Message</u> <u>Parameters</u>	<u>0</u>	<u>22</u>	NERC CIP Security - Integrity	CIP Security Classification for Integrity	-	-	1	<u>Y</u>	_	1	-
1-General Asset / Resource	<u>1</u>	_	General Asset/Resource	-	-	-	-	-	-	-	_
1-General Asset / Resource	1	<u>10</u>	Service Location ID	Identifier assigned to the Service Location	The location at which connection to the transmission or distribution system is made.	_	_	<u>Y</u>	_	_	<u>Y</u>
1-General Asset / Resource	1	<u>11</u>	Service Location Name	Name of the Service Location	-	- 1	1	<u>Y</u>	-	1	-
1-General Asset / Resource	<u>1</u>	<u>12</u>	Asset ID	The unique identifier of the asset	-	1	-	<u>Y</u>	- 1	ı	<u>Y</u>
1-General Asset / Resource	<u>1</u>	<u>13</u>	Asset Name	The name of the asset	-	1	_	<u>Y</u>	-	1	_
1-General Asset / Resource	1	<u>20</u>	Resource ID	Identifier assigned to the Resource	A Resource may be an individual asset or a group of assets that represent a dispatchable entity.	ı	-	<u>Y</u>	_	-	<u>Y</u>
1-General Asset / Resource	1	<u>21</u>	Resource Name	Name of the Resource	-	-	_	<u>Y</u>	_	-	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
1-General Asset / Resource	1	<u>22</u>	DR Resource Group ID	Grouping of Resources that can respond to the same DR signal		_	_	1	1	_	<u>Y</u>
1-General Asset / Resource	<u>1</u>	<u>30</u>	Asset Group ID	The identifier of a group of assets	An Asset Group is a logical entity that has a reportable interval-level consumption.	_	_	<u>Y</u>	_	_	<u>Y</u>
1-General Asset / Resource	1	<u>31</u>	Asset Group Name	Name of the aggregated group of assets	-	_	-	<u>Y</u>	-	_	<u>Y</u>
1-General Asset / Resource	1	<u>40</u>	GenEMSID	Alias or point Identifier assigned to the Resource	-	_	_	<u>Y</u>	_	_	_
1-General Asset / Resource	1	<u>41</u>	GenBillingID	Billing Identifier assigned to the Resource	-	_	_	<u>Y</u>	_	_	_
1-General Asset / Resource	1	<u>50</u>	Business Segment	SIC or NAICS code of the Service Location	-	_	_	<u>Y</u>	_	_	_
1-General Asset / Resource	1	<u>51</u>	Batch Load Flag	Flag set if the Resource is a Batch Load	-	_	-	<u>Y</u>	-	_	_
1-General Asset / Resource	1	<u>991</u>	General Resource Comments	General comments associated with the Resource	-	_	_	<u>Y</u>	-	_	_
2-Location	2		<u>Location</u>								_
2-Location	<u>2</u>	<u>10</u>	Address1	Address line 1	-	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>11</u>	Address2	Address line 2	_	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>12</u>	City	City	_	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>13</u>	State/Province	State or Province two- letter code	-	_	-	<u>Y</u>	-	_	<u>Y</u>



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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
2-Location	<u>2</u>	<u>14</u>	Zip/Postal Code	Zip or Postal Code		_	ı	<u>Y</u>	1	ı	<u>Y</u>
2-Location	<u>2</u>	<u>15</u>	Country	Country	-	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	<u>2</u>	<u>20</u>	GPS Coordinates	Latitude and longitude	-	_	_	<u>Y</u>	_	_	<u>Y</u>
2-Location	2	<u>21</u>	Weather Station	Weather Station code associated with the Service Location	-	_	_	<u>Y</u>	ı	1	<u>Y</u>
2-Location	<u>2</u>	<u>22</u>	Time Zone Name	Name of the Time Zone in which the Service Location is located	-	_	_	<u>Y</u>	ı	1	-
2-Location	<u>2</u>	<u>30</u>	Zone ID	Identifier assigned to the Zone in which the Service Location is located	-	_	_	<u>Y</u>	ı	1	<u>Y</u>
2-Location	<u>2</u>	<u>31</u>	Zone	Name of the Zone in which the Service Location is located	A Zone is a physical or electrical region.	_	_	<u>Y</u>	_	-	<u>Y</u>
2-Location	<u>2</u>	<u>32</u>	Zone Type	Type of Zone	Examples: Capacity, Dispatch, Price, Load, etc.	_	_	<u>Y</u>	_	_	_
2-Location	<u>2</u>	<u>40</u>	Electrical Node ID	Identifier assigned to the Electrical Node at which the Service Location is connected	-	-	-	<u>Y</u>	-	ı	Y
2-Location	<u>2</u>	<u>41</u>	Electrical Node Name	Name of the Electrical Node at which the Service Location is connected	-	_	_	<u>Y</u>	_	1	<u>Y</u>



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2-Location	<u>2</u>	<u>42</u>	Electrical Node Type	Type of Electrical Node at which the Service Location is attached	-	_	_	<u>Y</u>	1	ı	<u>Y</u>
2-Location	<u>2</u>	<u>43</u>	<u>PNode</u>	Name of the Price Node associated with the Service Location	The P-Node is the price location of the Service Location in the transmission and/or distribution network.	_	_	<u>Y</u>	1	-	<u>Y</u>
2-Location	<u>2</u>	<u>44</u>	PNode ID	Identifier assigned to the Price Node associated with the Service Location	-	-	_	<u>Y</u>	1	ı	<u>Y</u>
2-Location	2	<u>50</u>	Competitive Choice Area	Flag set if the Service Location is in an area with Competitive Choice	-	_	_	<u>Y</u>	-	ı	-
2-Location	<u>2</u>	<u>51</u>	Asset Multiplier	Number of identical Assets within the Service Location	-	_	_	<u>Y</u>	_	_	_
2-Location	<u>2</u>	<u>60</u>	NERC Control Area	The NERC control area of the resource	-	_	_	<u>Y</u>	_	_	_
2-Location	<u>2</u>	<u>71</u>	Connection Type	Additional type of connection associated with the Service Delivery Point	Example: ICCP Connection, IP address	_	_	<u>Y</u>	-	_	-
2-Location	<u>2</u>	<u>72</u>	Connection Address	Address associated with the Connection Type	Example: Address of ICCP Connection, IP address	_	_	<u>Y</u>	-	_	_
2-Location	<u>2</u>	<u>991</u>	Location Comments	Comments associated with the Service Location	-	_	-	<u>Y</u>	_	_	-



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3-Contact	<u>3</u>		<u>Contact</u>								_
3-Contact	<u>3</u>	<u>10</u>	Contact Type	Interest code associated with a Contact	This is a classification defining the function a particular contact serves. It supports "who to call for what needs" decisions. Examples are: Primary, Secondary, Billing, Third Party, and Authorized Representative.	-	-	<u>Y</u>	-	-	-
3-Contact	<u>3</u>	<u>11</u>	Contact Priority	Order in which this Contact should be selected	This is used when multiple contacts are defined.	-	ı	<u>Y</u>	-	_	-
3-Contact	<u>3</u>	<u>12</u>	DUNS Number	<u>DUNS business number</u>	-	-	_	<u>Y</u>	_	_	_
3-Contact	<u>3</u>	<u>13</u>	Third Party	Flag set if the Contact is a third-party entity	-	-	ı	<u>Y</u>	-	_	-
3-Contact	<u>3</u>	<u>20</u>	<u>Title</u>	<u>Title of the Contact</u>	-	-	_	<u>Y</u>	_	_	_
3-Contact	<u>3</u>	<u>21</u>	First Name	First Name of the Contact	-	-	-	<u>Y</u>	_	_	_
3-Contact	<u>3</u>	<u>22</u>	Last Name	<u>Last Name of the Contact</u>	-	-	-	<u>Y</u>	_	_	_
3-Contact	<u>3</u>	<u>23</u>	Contact Middle Name	Middle Name of the Contact	-	-	_	<u>Y</u>	_	_	-
3-Contact	<u>3</u>	<u>30</u>	Contact Method	Method of communication with the Contact	This identifies the various types of communication options (phone, email, etc.) to be used.	-	_	<u>Y</u>	-	_	-
3-Contact	<u>3</u>	<u>31</u>	Contact Address <u>Data</u>	Method-dependent Address of the Contact	This identifies specific information required for the contact method selected.	1	_	<u>Y</u>	_	_	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
3-Contact	<u>3</u>	<u>32</u>	Contact Method Priority	Order in which a Communication Method should be selected for a Contact	A Communication Method is the medium by which an object communicates with another object for instruction, measurement, or control. The user specifies the sequence in which each medium is to be used when being contacted.	-	_	Y	-	_	-
3-Contact	<u>3</u>	<u>991</u>	Contact Comments	Comments associated with the Contact	-	- 1	_	<u>Y</u>	- 1	_	_
<u>4-Grid</u> <u>Connection</u>	<u>4</u>		Grid Connection								-
4-Grid Connection	<u>4</u>	<u>10</u>	Loss Factor Type	Type of Loss Factor	-	1	-	Y	-	_	_
4-Grid Connection	<u>4</u>	<u>11</u>	Loss Factor Value	Loss Factor	Expressed as a decimal value.	-	_	<u>Y</u>	-	_	_
4-Grid Connection	<u>4</u>	<u>12</u>	Connect Voltage	Voltage level	Voltage at connection.	-	_	<u>Y</u>	-	_	_
4-Grid Connection	<u>4</u>	<u>991</u>	Grid Connection Comments	Comments associated with the Grid Connection of the Resource	-	1	ı	<u>Y</u>	_	_	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>		Business Entity Relationships								-
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>11</u>	Service Provider ID	Identifier assigned to the Service Provider	The Service Provider coordinates Resources to deliver electricity products and services to a market or distribution operator.	-	_	<u>Y</u>	_	_	<u>Y</u>



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<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
5-Business Entity Relationships	<u>5</u>	<u>12</u>	Service Provider Name	Name of the Service Provider	-	ı	-	<u>Y</u>	ı	_	-
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>13</u>	<u>Demand Response</u> <u>Provider</u>	-	The entity that is responsible for delivering Demand reductions from Demand Resources and is compensated for providing such Demand Response products.	1	-	1	ı	-	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>14</u>	Demand Response Controlling Entity	-	An identifier for the Service Provider issuing the DR event deployment instructions.	1	ı	1	1	İ	<u>Y</u>
5-Business Entity Relationships	<u>5</u>	<u>20</u>	Transmission / Distribution Service Provider ID	Identifier assigned to the Transmission / Distribution Service Provider	The Transmission / Distribution Service Provider operates a local electricity transmission and/or distribution system.	-	1	Ϊ́Υ	-	_	-
5-Business Entity Relationships	<u>5</u>	<u>21</u>	Transmission / Distribution Service Provider Name	Name of the Transmission / Distribution Service Provider	-	-	1	<u>Y</u>	-	_	-
5-Business Entity Relationships	<u>5</u>	<u>22</u>	Transmission / Distribution Service Provider Account Number	Transmission / Distribution Service Provider's account number for the Resource	-	1	-	<u>Y</u>	1	-	Y



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<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
5-Business Entity Relationships	<u>5</u>	<u>30</u>	Load Serving Entity ID	Identifier assigned to the LSE	The Load-Serving Entity serves end users and sells electric energy to end users.	1	-	<u>Y</u>	ı	1	_
5-Business Entity Relationships	<u>5</u>	<u>31</u>	Load Serving Entity Name	Name of the LSE	-	1	ı	<u>Y</u>	1	ı	_
5-Business Entity Relationships	<u>5</u>	<u>40</u>	Retail Rate ID	Identifier assigned to the Retail Rate	-	ı	_	<u>Y</u>	1	ı	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>41</u>	Retail Rate Code	Code representing the Retail Rate for the Service Location	-	ı	_	<u>Y</u>	- 1	1	_
5-Business Entity Relationships	<u>5</u>	<u>42</u>	Retail Rate Name	Name of the Retail Rate for the Service Location	-	1	ı	<u>Y</u>	-	1	_
5-Business Entity Relationships	<u>5</u>	<u>43</u>	Retail Rate Description	Description of the Retail Rate	This can also be used for comments associated with the Retail Rate.	1	ı	<u>Y</u>	ı	1	_
5-Business Entity Relationships	<u>5</u>	<u>44</u>	Retail Rate	Retail Rate	Expressed as Price per kWh	ı	_	<u>Y</u>	_	1	_
5-Business Entity Relationships	<u>5</u>	<u>50</u>	Meter Installation Provider ID	Identifier assigned to the Meter Installation Provider	-	1	ı	<u>Y</u>	_	1	_



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5-Business Entity Relationships	<u>5</u>	<u>51</u>	Meter Installation Provider Name	Name of the Meter Installation Provider	This is the competitive meter entity for the meter device.	_	_	<u>Y</u>	_	_	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>60</u>	Meter Authority ID	Identifier assigned to the Metering Authority	The Metering Authority provides electric usage data necessary to determine the performance of a Resource.	_	-	<u>Y</u>	-	I	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>61</u>	Meter Authority Name	Name of the Metering Authority	-	_	-	<u>Y</u>	_	1	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>70</u>	Scheduling Entity ID	Identifier assigned to the Scheduling Entity	A Scheduling Entity submits bids and/or offers and receives Schedules and Awards.	_	_	<u>Y</u>	ı	1	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>71</u>	Scheduling Entity Name	Name of the Scheduling Entity	-	_	-	<u>Y</u>	ı	ı	_
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>80</u>	Designated Dispatch Entity ID	Identifier assigned to the Designated Dispatch Entity	The Designated Dispatch Entity receives and processes Demand Resource Dispatch instructions or market information and may provide response information.	_	-	<u>Y</u>	-	ı	_
5-Business Entity Relationships	<u>5</u>	<u>81</u>	Designated Dispatch Entity Name	Name of the Designated Dispatch Entity	-	_	-	<u>Y</u>	-	ı	_



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<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>90</u>	Asset Operator ID	The identifier of the business entity that operates the DR assets. This is the entity that has physical control of the asset and control of the capability to participate in DR Events.	-	-	-	-	1	_	Y
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>91</u>	Asset Operator Name	The name of the business entity that operates the DR assets. This is the entity that has physical control of the asset and control of the capability to participate in DR Events.	_	-	-	-	-	-	Y
5-Business Entity Relationships	<u>5</u>	92	Asset Owner ID	The Identifier of the business entity that owns the DR assets (entity that has the right to use or transfer use of the asset).	-	-	-	-	-	-	Y
<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	<u>93</u>	Asset Owner Name	The Name of business entity that owns the DR assets (entity that has the right to use or transfer use of the asset).	-	-	_	1		-	Y



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<u>5-Business</u> <u>Entity</u> <u>Relationships</u>	<u>5</u>	991	External Entity Comments	Comments associated with the External Entity	-	_	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>		<u>Device and</u> <u>Qualification</u>								-
6-Device and Qualification	<u>6</u>	<u>10</u>	Meter Configuration	Configuration of the Meter at the Facility	The CIM defines the Mater as the physical asset that performs the metering role of the ServiceDeliveryPoint. It is used for measuring consumption and detecting events.	ı	-	<u>Y</u>	ı	-	-
6-Device and Qualification	<u>6</u>	<u>11</u>	Parent Meter id	Flag set if the Meter is a Master or Parent Meter	-	_	_	<u>Y</u>	1	_	ı
6-Device and Qualification	<u>6</u>	<u>20</u>	Meter ID	Identifier assigned to the Meter	-	_	-	<u>Y</u>	_	_	-
6-Device and Qualification	<u>6</u>	<u>21</u>	Meter Type	Type of Meter installed at the Facility	Examples: RTU, CT/PT, etc.	_	_	<u>Y</u>	1	_	ı
6-Device and Qualification	<u>6</u>	<u>22</u>	Meter Manufacturer	Manufacturer of the Meter	-	_	_	<u>Y</u>	_	-	-
6-Device and Qualification	<u>6</u>	<u>221</u>	Meter Installation Date	Date of Installation of the Meter	-	-	_	<u>Y</u>	_	_	-
6-Device and Qualification	<u>6</u>	222	PT Ratio	Ratio of the Potential Transformer	-	_	_	<u>Y</u>	_	_	-



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6-Device and Qualification	<u>6</u>	223	Meter Installer License	Professional License Number of the Installer of the Meter	-	_	_	<u>Y</u>	-	_	_
6-Device and Qualification	<u>6</u>	<u>224</u>	Meter Correction Factors	Device-specific Factors used to adjust for atmospheric changes at the point of installation of the Meter	-	-	-	<u>Y</u>	1	_	_
6-Device and Qualification	<u>6</u>	<u>225</u>	Meter Test Criteria	Test Criteria required to qualify the installation of the Meter	-	_	_	<u>Y</u>	1	_	_
6-Device and Qualification	<u>6</u>	<u>226</u>	Meter Test Frequency	Frequency of Tests of the Meter	Expressed in months.	-	_	<u>Y</u>	-	_	-
6-Device and Qualification	<u>6</u>	<u>227</u>	Meter Device QA Plan	Quality Assurance plan for maintenance and testing of the Meter	-	_	_	<u>Y</u>	-	_	_
6-Device and Qualification	<u>6</u>	<u>228</u>	Date of Last Meter Test	Date of Last Test of the Meter	-	_	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	<u>229</u>	Meter Qualification Date	Date of Qualification of the Meter by the Metering Authority or System Operator	-	-	-	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	229 1	Meter Test Results	Results of Tests of the Meter	These are specific to the meter type.	-	_	<u>Y</u>	_	_	_



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6-Device and Qualification	<u>6</u>	229 2	VEE Compliance	Compliance standard for Validation, Editing, and Estimation	Validation, Editing, and Estimation is the process of taking raw meter data and performing validation and, as necessary, editing and estimation of corrupt or missing data, to create validated data. VEE guidelines are published in the Edison Electric Institute's Uniform Business Practices for Unbundled Electricity Metering, Volume Two, Published 12/05/00, http://www.naesb.org/REQ/req_form.asp.	-	-	Y	-	-	-
6-Device and Qualification	<u>6</u>	229 3	Measurement Interval	Interval of time between Measurement readings	This is the time between electricity meter recordings. The Measurement records the consumption or supply of an End Device. An End Device is a physical end-use device that consumes or supplies electricity.	-	_	<u>Y</u>	-	-	_
6-Device and Qualification	<u>6</u>	<u>229</u> <u>4</u>	ANSI Compliance	ANSI standard with which the Meter complies	-	1	ı	<u>Y</u>	1	1	1
6-Device and Qualification	<u>6</u>	<u>229</u> <u>5</u>	Meter Owner	Owner of the Meter	-	1	_	<u>Y</u>	-	ı	-
6-Device and Qualification	<u>6</u>	229 <u>6</u>	Meter Asset Comments	Comments associated with the Meter Asset	-	-	_	<u>Y</u>	-	1	-
6-Device and Qualification	<u>6</u>	<u>23</u>	Meter Model	Model of the Meter	-	-	_	<u>Y</u>	_	-	_
6-Device and Qualification	<u>6</u>	<u>24</u>	Meter Rating	Load Rating of the Meter	-	_	_	<u>Y</u>	_	-	-



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6-Device and Qualification	<u>6</u>	<u>25</u>	Meter Multiplier (kH)	Multiplier used to convert pulses into power units	-	_	_	<u>Y</u>	_	-	_
6-Device and Qualification	<u>6</u>	<u>26</u>	Meter Accuracy Class	Accuracy Class of the Meter	-	_	_	<u>Y</u>	_	1	-
6-Device and Qualification	<u>6</u>	<u>27</u>	Meter Loss Compensation	Line Losses included in the Meter	-	-	_	<u>Y</u>	_	1	-
6-Device and Qualification	<u>6</u>	<u>28</u>	Maximum Error	Error of the Meter, including end-to-end Maximum Error	-	_	_	<u>Y</u>	_	-	_
6-Device and Qualification	<u>6</u>	<u>29</u>	Meter Phase	Specific Phase information	-	_	_	<u>Y</u>	_	_	-
6-Device and Qualification	<u>6</u>	<u>291</u>	CT Ratio	Ratio of the Current Transformer	-	_	_	<u>Y</u>	_	_	_
6-Device and Qualification	<u>6</u>	<u>30</u>	Distributed Generator Type	Type of Distributed Generator	This technology characteristic of the Distributed Generator, such as combined cycle, induction, etc.	_	_	<u>Y</u>	_	1	_
6-Device and Qualification	<u>6</u>	<u>31</u>	Nameplate Rating	Manufacturer's output rating of the Distributed Generator	-	_	-	<u>Y</u>	_	ı	_
6-Device and Qualification	<u>6</u>	<u>32</u>	Distributed Generator Fuel Type	Type of Fuel consumed by the Distributed Generator	-	_	_	<u>Y</u>	_	_	_



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6-Device and Qualification	<u>6</u>	<u>33</u>	Distributed Generator Permit Type	Type of environmental authorization required to operate the Distributed Generator	The Environmental Authority is a regulatory authority responsible for the development, reporting, and enforcement of environmental activities.	ı	1	<u>Y</u>	ı	1	-
6-Device and Qualification	<u>6</u>	<u>34</u>	Distributed Generator Manufacturer	Manufacturer of the Distributed Generator	-	-	_	<u>Y</u>	ı	-	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>35</u>	Manufactured Date of Distributed Generator	Date of Manufacturer of the Distributed Generator	-	1	-	<u>Y</u>	ı	ı	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>36</u>	Installation Date of Distributed Generator	Date of Installation of the Distributed Generator	-	1	-	<u>Y</u>	ı	ı	-
6-Device and Qualification	<u>6</u>	<u>37</u>	In-Service Date	Date the Distributed Generator became operational	-	1	-	<u>Y</u>	ı	1	-
6-Device and Qualification	<u>6</u>	<u>38</u>	Normal Load Rating	Average load picked up by the Distributed Generator during the applicable performance hours	-	ı	ı	<u>Y</u>	-	ı	-
6-Device and Qualification	<u>6</u>	<u>39</u>	Distributed Generator Name	Name of the Distributed Generator	-	-	_	<u>Y</u>	_	-	-



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6-Device and Qualification	<u>6</u>	<u>41</u>	Interconnection Agreement Type	Type of Interconnection Agreement between the Distributed Generator or Service Location and the TDSP	-	-	_	<u>Y</u>	-	-	_
6-Device and Qualification	<u>6</u>	42	Interconnection Limits	Limits associated with the Interconnection of the Distributed Generator or Service Location	-	-	_	<u>Y</u>	_	_	-
6-Device and Qualification	<u>6</u>	<u>43</u>	Capable of Synchronizing to Grid	Flag set if the Service Location is capable of Synchronizing to the Grid	-	ı	1	<u>Y</u>	ı	ı	_
6-Device and Qualification	<u>6</u>	<u>44</u>	Normal Breaker Status	Status of the Breaker for the Service Location under Normal operating conditions	Normal Operations is the time following Release/Recall during which a System Operator or Service Provider may require a Demand Resource to have returned its Load consumption to normal levels and to be available again for Deployment.	1	1	<u>Y</u>	1	1	-
6-Device and Qualification	<u>6</u>	<u>45</u>	Breaker Status During Event	Status of the Breaker for the Service Location during an Emergency Event	-	-	ı	<u>Y</u>	ı	1	_
6-Device and Qualification	<u>6</u>	<u>46</u>	Wholesale Delivery Point Status	Flag set if the Service Location is metered at the Wholesale level	-	-	_	<u>Y</u>	_	_	-



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6-Device and Qualification	<u>6</u>	<u>47</u>	Private Use Network	Flag set if the Resource is an Electric Network connected to the transmission grid	This is used for load that is typically netted with internal generation.	_	_	<u>Y</u>	ı	_	_
6-Device and Qualification	<u>6</u>	<u>51</u>	UFR Settings	Setting of the Under- Frequency Relay	-	_	_	<u>Y</u>	-	_	_
6-Device and Qualification	<u>6</u>	<u>52</u>	Load Resource Control Device	Type of Control Device at a Service Location or deployed by a Response Method	-	_	_	<u>Y</u>	_	_	-
6-Device and Qualification	<u>6</u>	<u>70</u>	Device Class	-	Note: From SEP2.0 Enumeration representing the Device Class to apply the current Load Control Event. O HVAC compressor or furnace 1 Strip Heaters/Baseboard Heaters 2 Water Heater 3 Pool Pump/Spa/Jacuzzi 4 Smart Appliances 5 Irrigation Pump 6 Managed Commercial & Industrial (C&I) loads 7 Simple misc. (Residential On/Off) loads 8 Exterior Lighting 9 Interior Lighting 10 Electric Vehicle 11 Generation Systems 12 to 15 Reserved	-	-	_	-	_	Y



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6-Device and Qualification	<u>6</u>	<u>80</u>	Asset Manufacturer	Manufacturer of the Asset	-	1	-	-	1	1	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>81</u>	Asset Model	Model identifier of the Asset, assigned by the Manufacturer	-	ı	ı	_	ı	ı	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>82</u>	Asset Version	Model version identifier, assigned by the Manufacturer	-	ı	_	_	ı	ı	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>83</u>	Asset Manufacture Date	Date of Manufacture of the Asset	-	1	1	-	1	1	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>84</u>	Asset Type	Type of Asset	Examples are: load reduction (curtailable or interruptible load), generation, combination, DG, renewable, storage, etc.	ı	ı	_	ı	ı	<u>Y</u>
6-Device and Qualification	<u>6</u>	<u>991</u>	Distributed Generator Comments	Comments associated with the Distributed Generator	-	1	ı	<u>Y</u>	ı	ı	-
7-Market / Program Enrollment	<u>7</u>		Market/Program Enrollment								-
7-Market / Program Enrollment	<u>7</u>	<u>10</u>	Program ID	Program Identifier	The identifier of the program	-	1	<u>Y</u>	-	- 1	<u>Y</u>



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7-Market / Program Enrollment	<u>7</u>	<u>11</u>	Program Name	Name of the Program	-	-	_	<u>Y</u>	-	-	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>12</u>	<u>Market</u>	Type of wholesale market	-	_	_	<u>Y</u>	-	_	_
7-Market / Program Enrollment	<u>z</u>	<u>13</u>	Market Product	Market Product	Product types include the following: energy, capacity, regulation, operating reserves (spinning or non-spin).	-	-	<u>Y</u>	-	-	Y
7-Market / Program Enrollment	<u>z</u>	<u>21</u>	Effective Enrollment Date	Effective Start Date for the Enrollment	Market Enrollment is the collection of enrollment or tariff data for a Demand Resource to provide a specific market product or service.	-	-	<u>Y</u>	-	-	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>22</u>	Enrollment Status	Status of the Enrollment for the Facility or Resource	Examples: Pending Enrollment, Approved Enrollment, Under Review, Denied, Separated	-	_	<u>Y</u>	-	1	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>23</u>	Resource Type	Type of Resource	Examples are: load reduction (curtailable or interruptible load), distributed generation, combination, renewable, storage, etc.	-	-	<u>Y</u>	-	-	<u>Y</u>
7-Market / Program Enrollment	<u>z</u>	<u>24</u>	Resource Qualification Test Date	Date the Resource demonstrated its ability to deliver a product or service	-	1	-	<u>Y</u>	ı	ı	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>25</u>	Enrollment End Date	Date of Termination of Enrollment	-	-	_	<u>Y</u>	_	-	<u>Y</u>



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7-Market / Program Enrollment	<u>7</u>	<u>26</u>	Requalification Test Date	Date the Resource will retest its ability to deliver a product or service	-	_	_	<u>Y</u>	-	-	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>30</u>	<u>Lead Time</u>	Time between the advanced notification and deployment	Notification is the transmittal of a Deployment message.	_	_	<u>Y</u>	-	_	<u>Y</u>
7-Market / Program Enrollment	<u>7</u>	<u>31</u>	Day Ahead Flag	Flag set if the Resource will be participating in the Day-Ahead market	-	_	_	<u>Y</u>	-	-	_
7-Market / Program Enrollment	<u>z</u>	<u>32</u>	Real Time Flag	Flag set if the Resource will be participating in the Real-Time market	-	_	_	<u>Y</u>	-	_	-
7-Market / Program Enrollment	<u>z</u>	<u>33</u>	Self-Schedule Flag	Flag set if the Resource is Self-Deploying	Self-Deployment is the Deployment via established Communication Methods initiated by the Service Provider or the Resource.	-	-	<u>Y</u>	ı	-	-
7-Market / Program Enrollment	<u>7</u>	<u>34</u>	Response Time	The amount of time before an asset/resource is capable of meeting its full performance, in response to a request by a Service Provider to shed load.	-	•	-	1	•	-	Y
7-Market / Program Enrollment	7	<u>40</u>	Response Method Type	Type of Response Method	Expressed as a response type code	_	_	<u>Y</u>	_	_	_



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7-Market / Program Enrollment	<u>7</u>	<u>41</u>	Response Method ID	Identifier assigned to the Response Method	-	-	_	<u>Y</u>	_	-	_
7-Market / Program Enrollment	<u>7</u>	<u>42</u>	Response Method Name	Name of the Response Method	-	İ	_	<u>Y</u>	ı	1	-
7-Market / Program Enrollment	<u>z</u>	<u>43</u>	Response Method Value	Value of the Response Method	The Demand Response Value is the quantity of modified electrical consumption by a Demand Resource, expressed as MW.	ı	_	<u>Y</u>	ı	ı	_
7-Market / Program Enrollment	<u>z</u>	<u>44</u>	Verified Capability	Audited Capability	Auditing is the validation of performance, conducted by the System Operator, of certain Response Aggregation Methods AFTER the Enrollment process.	-	_	<u>Y</u>	ı	-	-
7-Market / Program Enrollment	<u>z</u>	<u>45</u>	Verified Capability Factor	Ratio of the Verified Capability to the qualified capability	Qualification is the validation of performance, conducted by the System Operator, of certain Response Aggregation Methods DURING the Enrollment process.	-	1	<u>Y</u>	ı	ı	_
7-Market / Program Enrollment	<u>z</u>	<u>50</u>	Performance Evaluation Method Type Code	Code representing the Type of Measurement	-	1	-	Y	-	ı	-
7-Market / Program Enrollment	<u>7</u>	<u>51</u>	Performance Evaluation Method	Method used to Evaluate the Performance of a Resource	Based on NAESB M&V terms.	-	_	<u>Y</u>	ı	1	_



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7-Market / Program Enrollment	<u>7</u>	<u>991</u>	Market Enrollment Comments	Comments associated with the Enrollment	-	_	_	<u>Y</u>	_	_	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>		Offer Parameters								-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>10</u>	Offer Limit Value	Offer Limit Value	Expressed in MW or hours. Multiple Limit Types are applicable.	_	_	<u>Y</u>	-	į	<u>Y</u>
8-Offer Parameters	<u>8</u>	11	Offer Limit Type	Type of Offer Limit	The limit may be associated with the bidding parameters of a resource. These may include limit types such as seasonal rating, reasonability, economic and ramp limits.	_	_	<u>Y</u>	-	-	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>12</u>	Offer Limit Interval	Offer Limit Interval	The period over which the offer limit applies, i.e., hour, day, etc.	_	_	<u>Y</u>	_	į	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>20</u>	Physical Min Gen	Minimum Operating Level of a Resource	-	_	_	<u>Y</u>	ı	į	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>21</u>	Min Gen MW	Minimum MW available for dispatch	When required as part of an enrollment request, this value acts as a default.	_	_	<u>Y</u>	1	į	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>22</u>	MinGenCost	The cost per hour for each Min Gen MW value.	The cost per hour for each MinGenMW value.	_	_	<u>Y</u>	_	_	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>23</u>	Ramp Rate Type	Type of Ramp Rate	Examples are: Normal, Emergency, Regulation.	_	_	<u>Y</u>	-	_	<u>Y</u>



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>24</u>	Ramp Rate Segment	Energy of Segment of the Ramp Rate	The end value of the Ramp Rate step, monotonically increasing or decreasing (as indicated by the Ramp Rate Direction), expressed in MW (NOTE: When required as part of an enrollment request, this value becomes the default)	-	-	Y	-	-	Y
8-Offer Parameters	<u>8</u>	<u>25</u>	Ramp Rate Direction	Direction of the selected Ramp Rate Type and Ramp Rate Segment	Valid directions are: Upward, Downward, Both.	1	-	Y	1	1	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>26</u>	Ramp Rate Value	Ramp Rate associated with the selected Ramp Rate Type for the selected Ramp Rate Segment and Ramp Rate Direction	The NERC definition of Ramp Rate is the rate, expressed in megawatts per minute, by which a generator changes its output. For a Demand Resource, the Ramp Rate is the rate, expressed in megawatts per minute, by which a Demand Resource changes its Load.	1	1	<u> </u>	1	1	Y
8-Offer Parameters	<u>8</u>	<u>30</u>	Offer Dispatch Type	Type of Offer	Examples are Flexible (resource follows basepoint signals) or Fixed (resource requests DA commitment and RT schedules of 15 minutes or greater)	1	-	Y	ı	1	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>31</u>	Offer Segment MW	Energy of Segment of the Offer	The end value of the offer step, monotonically increasing, expressed in MW (NOTE: When required as part of an enrollment request, this value becomes the default)	1	1	<u>\</u>	_	ı	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>32</u>	Offer Segment Price	Price of Segment of the Offer	NOTE: When required as part of an enrollment request, this value becomes the default.	-	_	<u>Y</u>	-	1	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>33</u>	Offer Segment Hour	Hour of Segment of the Offer	NOTE: When required as part of an enrollment request, this value becomes the default.	_	_	<u>Y</u>	1	1	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>34</u>	Startup Cost	Cost of starting a response activity	NOTE: When required as part of an enrollment request, this value becomes the default.	_	ı	<u>Y</u>	1	1	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>35</u>	Strike Price	Threshold Price	Expressed as a decimal value of price/MW.	_	ı	<u>Y</u>	ı	1	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>36</u>	Offer Expiration Date	Date of Expiration of the Offer	This applies to DAM only.	_	_	<u>Y</u>	_	1	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>37</u>	Startup Cost Type	Type of startup cost	The type of Start Up Cost included in the offer. Options may include: Select cold, intermediate, hot or shutdown.	_	ı	<u>Y</u>	1	1	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>38</u>	Offer Commit Status	Commitment status of offer	Product-specific commitment status types included with offer. Examples include: economic, emergency, must-run, not participating, outage run status, override status, etc.	_	_	<u>Y</u>	_	-	<u>Y</u>



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>8-Offer</u> <u>Parameters</u>	8	<u>39</u>	Offer Dispatch Status	Dispatch Status of Offer	Product-specific commitment status types included with offer. Examples include: economic, emergency, not participating, not qualified, and self-schedule. May also be used to temporarily opt out of DR Events and to override the normal operational constraints. The opt-out can be specified using the following criteria: • All events in a program indefinitely (unspecified time period) • Specific DR Event • All events in a specific time period. • Other triggered programs for which an asset or DR resource is already called upon (reduce double counting of available capacity)	-		<u>Y</u>	-	1	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>331</u>	Offer Price Curve Slope	Flag to smoothe offer segments from step function to slope	-	ı	_	<u>Y</u>	ı	1	ı
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>332</u>	Strike Price Type	Type of strike price	Indicates the type of strike price. Options may include: buy or sell.	_	_	<u>Y</u>	_	_	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>40</u>	Market Clearing Day	Market Clearing Day of the Offer	-	_	_	<u>Y</u>	_	-	-
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>41</u>	Schedule Name	Name or tag of the Offer	-	_	_	<u>Y</u>	_	_	_



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<u>-</u> <u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>42</u>	Schedule Description	Description of the Offer	-	1	-	<u>Y</u>	1	-	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>43</u>	Schedule Status	Status of the Offer	-	-	_	<u>Y</u>	ı	_	_
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>50</u>	Portfolio Name	Name of an aggregation of Resources for market participation	-	_	_	<u>Y</u>	_	_	_
8-Offer Parameters	8	<u>71</u>	Constraint Type	Type of operational, schedule or offer constraint	Types of operational, offer or schedule parameters. Examples include: Select Operational Minimum Runtime, Schedule Minimum Runtime, Operational Maximum Runtime, Schedule Maximum Runtime, Schedule Maximum Runtime, Minimum Load, Maximum Load, Minimum Downtime, Minimum Starts, Maximum Energy, Maximum Starts, Time of Day schedule constraints, Black out date, Maximum consecutive days of participation, Maximum calls per day, Minimum Advanced Notification, Minimum duration of participation, etc.	-	-	Y	-	-	Y
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>72</u>	Constraint Interval	The timeframe over which the constraint type applies.	Typically daily, hourly, weekly, date	-	_	<u>Y</u>	_	_	<u>Y</u>
<u>8-Offer</u> <u>Parameters</u>	<u>8</u>	<u>73</u>	Constraint Value	Value of the Constraint Type and Interval	-	-	_	<u>Y</u>	-	-	<u>Y</u>
<u>9-Energy</u>	<u>9</u>		Energy Market								



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	- Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
<u>Market</u>											
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>0</u>	Instruction ID	-	Unique identifier assigned to each instruction.	-	_	<u>Y</u>	ī	_	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>10</u>	Energy Schedule - Start Time	Start Time of the Energy Schedule	A Schedule is an energy profile for a Resource for a future time period, by scheduling time interval (typically hourly).	1	ı	Y	-	_	<u>Y</u>
9-Energy Market	<u>9</u>	<u>11</u>	Energy Schedule - End Time	End Time of the Energy Schedule	A Schedule is an energy profile for a Resource for a future time period, by scheduling time interval (typically hourly).	-	_	Y	-	_	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>12</u>	Energy Schedule - Interval Start Time	Start Time of the Energy Interval within the Energy Schedule	The start time of a specific energy schedule interval	-	ı	Y	-	_	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>13</u>	Energy Schedule - Cleared MW Interval Value	The Energy Value of cleared MW for the Time Interval within the Energy Schedule	The offered energy MW that have cleared the market.	-	_	<u>Y</u>	-	-	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>14</u>	Energy Schedule - Cleared Price	Awarded Price	The market clearing price for the cleared energy MW.	1	_	<u>Y</u>	-	_	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>15</u>	Schedule ID	-	Unique identifier assigned to each schedule.	_	_	<u>Y</u>	_	_	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
9-Energy <u>Market</u>	9	<u>20</u>	Base Point	Per-interval dispatch instruction	A Dispatch is a real-time instruction to a Resource to move to a Base Point at a specific time (Resource-Specific Deployment) or a set of real-time instructions to multiple Resources (Bulk Deployment). A Resoiurce-Specific Deployment is the deployment, via established Communication Methods initiated by the System Operator, of one or more discrete and/or unique Resources designated to provide a selected service.	-	-	Y	-	-	-
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>21</u>	Breaker Status	Status of the Breaker for the Resource	-	_	_	<u>Y</u>	-	1	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>22</u>	Output MW	Real Power Output of the Distributed Generator	Expressed in MW	_	_	<u>Y</u>	_	ı	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>23</u>	Output MVAR	Reactive Power Output of the Distributed Generator	Expressed in Mvar	-	_	<u>Y</u>	_	_	_
<u>9-Energy</u> <u>Market</u>	<u>9</u>	<u>24</u>	DR Bus Load MW	Instantaneous Bus Load of a Demand Resource providing Ancillary Services	Demand is the rate at which electric energy is being used by the customer (NERC Definition). Expressed in MW. This element only applies to DR	_	-	<u>Y</u>	_	-	_



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9-Energy <u>Market</u>	<u>9</u>	<u>25</u>	Set Point	Final dispatch target level	The real-time desired MW output signal calculated for a specific Resource by the Transmission Provider's control system on a specified periodicity that is equal to the current Energy Dispatch Target plus the Regulating Reserve Deployment instruction (which may be positive or negative) plus an adjustment to the Energy Dispatch Target to account for Contingency Reserve Deployment Instructions. The Setpoint Instruction represents the desired output level of the Resource.	-	-	<u>Y</u>	-	-	-
<u>10-Ancillary</u> <u>Service</u> <u>Market</u>	<u>10</u>		Ancillary Service Market								-
10-Ancillary Service Market	<u>10</u>	<u>o</u>	Ancillary Service Instruction ID	-	Unique identifier assigned to each ancillary service instruction.	-	-	<u>Y</u>	-	-	-
10-Ancillary Service Market	<u>10</u>	<u>10</u>	Ancillary Service Product Type	Type of Ancillary Service product(s) the Resource is enrolling to provide	-	1	_	<u>Y</u>	-	_	<u>Y</u>
10-Ancillary Service Market	<u>10</u>	<u>11</u>	Have Engineering Diagram	Flag set if One-Line Diagrams have been submitted	-	1	_	<u>Y</u>	-	-	-
10-Ancillary Service Market	<u>10</u>	<u>12</u>	Ancillary Service Award - Start Time	Start Time of the ancillary service Award	A Schedule is an ancillary service profile for a Resource for a future time period, by scheduling time interval.	1	_	<u>Y</u>	_	_	-



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	- <u>Long Description</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
10-Ancillary Service Market	<u>10</u>	<u>13</u>	Ancillary Service Award - End Time	End Time of the ancillary service Award	A Schedule is an ancillary service profile for a Resource for a future time period, by scheduling time interval.	1	-	<u>Y</u>	-	1	_
10-Ancillary Service Market	<u>10</u>	<u>14</u>	Ancillary Service Award - Interval Start Time	Start Time of the ancillary service Interval within the ancillary service Award and the ancillary service Value of the Time Interval	The start time of a specific ancillary service schedule interval	1	1	<u>Y</u>	ı	1	_
10-Ancillary Service Market	<u>10</u>	<u>15</u>	Ancillary Service Award - Interval Value	The awarded Value for the Time Interval within the ancillary service Award	The value associated with a specific ancillary service schedule interval	-	_	<u>Y</u>	_	-	-
10-Ancillary Service Market	<u>10</u>	<u>16</u>	Ancillary Service Award - Cleared Price	Awarded Price	The market clearing price for the cleared ancillary service product MW.	-	_	<u>Y</u>	_	_	-
10-Ancillary Service Market	<u>10</u>	<u>17</u>	Ancillary Service Schedule ID	-	Unique identifier assigned to each ancillary service schedule.	1	ı	<u>Y</u>	1	1	_
10-Ancillary Service Market	<u>10</u>	<u>20</u>	Ancillary Service Product Qualification Type	Type of Qualification	Examples include initial, requalification, etc.	1	ı	Y	-	1	-
10-Ancillary Service Market	<u>10</u>	<u>21</u>	Synchronization Test Date	Target Date of Test of Synchronization to the grid	-	-	_	<u>Y</u>	_	-	_



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
10-Ancillary Service Market	<u>10</u>	<u>22</u>	Ancillary Service Product Type Qualification Date	Date of Qualification of the Resource	-	-	-	<u>Y</u>	_	_	-
10-Ancillary Service Market	<u>10</u>	<u>23</u>	Ancillary Service Product Type Qualified	Type of Ancillary Service Product(s) for which the Resource has Qualified	-	-	-	<u>Y</u>	_	-	_
10-Ancillary Service Market	<u>10</u>	24	Requalification Requirement	Flag set if Requalification is Required	-	-	_	<u>Y</u>	_	_	_
10-Ancillary Service Market	<u>10</u>	<u>31</u>	Reserve Pickup Flag	Flag set if this is a Reserve Pickup schedule	Reserve Service is a type of Demand Response service in which Demand Resources are obligated to be available to provide Demand reduction Energy Service, based on reserve capacity requirements that are established to meet applicable reliability standards. Reserve Services are defined by short-term response rates (Ramp Period) and synchronization with the electricity grid (i.e., spinning and non-spinning reserves).	,	-	Y	-	-	_



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10-Ancillary Service Market	<u>10</u>	<u>32</u>	Regulation Base Point	Per-interval Regulation dispatch instruction	Regulation Service is a type of Demand Response service in which a Demand Resource corrects for short-term changes in electricity use that might affect the stability of the power system, matching generation and load to maintain a desired frequency. Demand Resources providing Regulation Service are subject to dispatch continuously during a commitment period. Provision of Regulation Service does not correlate to Demand Response deployment terms of the Event timelines, deadlines and durations.	-	-	Y	-	-	1
10-Ancillary Service Market	<u>10</u>	<u>33</u>	Base Load MW	Level of Load at time of dispatch	-	-	_	<u>Y</u>	-	ı	_
11-Capacity <u>Market</u>	<u>11</u>		Capacity Market								_
11-Capacity <u>Market</u>	<u>11</u>	<u>10</u>	Capacity Type	Type of Capacity	Capacity Service is a type of Demand Response service in which Demand Resources are obligated over a defined period of time to be available to deliver upon deployment by the System Operator or Service Provider. Examples: Hourly, Monthly, etc.	-	_	<u>Y</u>	-	-	Y
11-Capacity Market	<u>11</u>	11	Capacity Type description	Description of the Type of Capacity	-	-	_	<u>Y</u>	-	-	<u>Y</u>
11-Capacity Market	<u>11</u>	<u>20</u>	Peak Value	Measurement of Peak	-	_	_	<u>Y</u>	-	1	_



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<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>21</u>	Peak Type	Type of measurement of Peak	Examples are: Annual, Monthly, Weekly, and Seasonal.	-	_	<u>Y</u>	-	Ī	_
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>22</u>	Peak Date/Time	Date and Time of measurement of Peak	-	ı	1	<u>Y</u>	ı	1	_
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>23</u>	Nominal Capacity	Nominated load	Expressed as a decimal value.	1	-	<u>Y</u>	1	1	<u>Y</u>
11-Capacity Market	<u>11</u>	<u>24</u>	Qualified Capacity	Nominal ICAP derated for performance	Derated based on past performance.	1	-	<u>Y</u>	_	_	<u>Y</u>
11-Capacity Market	11	<u>30</u>	Capacity Obligation Period Type	Type of Capacity Obligation Time Period within which the Resource is obligated	Examples are: All hours, Business hours 1, Business hours 2, Business Hours 3, Non- Business hours.	1	1	<u>Y</u>	-	-	_
11-Capacity Market	<u>11</u>	<u>31</u>	Capacity Obligation Period	Period of time for which the Capacity Resource is Obligated	Examples include: month, season, year, etc.	-	_	<u>Y</u>	-	-	_
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>40</u>	Minimum Payment Nomination	Strike price for the economic dispatch of the energy component of the capacity program	Expressed in Price/MW.	ı	_	<u>Y</u>	ı	ı	_
<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>41</u>	Capacity Supply Obligation	Capacity Obligation	This may result from an auction or other clearing mechanism.	-	_	<u>Y</u>	-	-	_
11-Capacity <u>Market</u>	<u>11</u>	<u>50</u>	Capacity Reference ID	Identifier assigned to the External System award	An Award is the selection of a Resource to provide energy, ancillary services, or capacity for a future time period. Expressed as a string.	-	-	<u>Y</u>	_	-	-



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<u>11-Capacity</u> <u>Market</u>	<u>11</u>	<u>991</u>	<u>Capacity</u> <u>Comments</u>	Comments associated with the Capacity market	-	-	_	<u>Y</u>	-	-	_
12-Event and Performance	<u>12</u>		Event and Performance								-
12-Event and Performance	<u>12</u>	<u>10</u>	Event ID	Identifier assigned to the Event	An Event consists of the time periods, deadlines, and transitions during which Demand Resources perform. The System Operator shall specify the duration and applicability of a Demand Response Event. Some deadlines, time periods, and transitions may not be not applicable to all products or services.	1	-	Y	1	-	Y
12-Event and Performance	<u>12</u>	<u>11</u>	<u>Deployment Type</u>	Type of Deployment	Examples are: Advanced (Normal), Immediate, Audit/Test	-	-	<u>Y</u>	-	-	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>12</u>	Event Day	Operating Date of Start of Event	-	-	_	<u>Y</u>	_	_	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>13</u>	Event Description	Description of the Event	-	-	_	<u>Y</u>	_	_	_
12-Event and Performance	<u>12</u>	<u>14</u>	Event Start Time	Time of Start of deployment period for Event	The Deployment Period is the period of time from the Deployment to Release/Recall.	-	_	<u>Y</u>	-	_	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>15</u>	Operator Comment	Additional Event information provided by the Operator	-	-	_	<u>Y</u>	_	_	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	<u>12</u>	<u>16</u>	Deployment MW	Absolute or relative Deployment quantity	Expressed as an absolute or relative (%) MW value.	-	_	<u>Y</u>	-	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>17</u>	Event Status	Status of the Event	Examples include: inititiated, completed, etc.	-	_	<u>Y</u>	- 1	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>18</u>	Event End Time	Time of End of deployment period	Release/Recall is the notification, sent from the System Operator or Service Demand Response Provider to the Demand Resource, that the Deployment Period has ended or announcing the time that it will end.	-	_	<u>Y</u>	1	1	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>19</u>	Event Modification Number	A modification number for the DR event. This is used to indicate if the DR Event has been modified by the Utility. Each time it is modified, this number is incremented.	-	-	_	<u>Y</u>	1	1	Y
12-Event and Performance	12	111	Notification Acknowledgement	This is an acknowledgement of the receipt of a DR notification or dispatch. It should include any necessary provisions for non-repudiation.	-	-	_	Y	-	1	Y



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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	- Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	<u>12</u>	112	Event Modification Reason Code	The reason the event is being cancelled or modified.	-	-	-	<u>Y</u>	-	-	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>113</u>	Load Level Value	Value of the load level to be achieved based on a set of enumerated values (e.g., moderate, high, etc.).	-	1	1	1	-	1	<u>Y</u>
12-Event and Performance	12	<u>21</u>	Baseline Dates	Dates of days used to calculate the Energy Baseline	The Baseline Window is the window of time preceding, and optionally following, a Demand Response Event, over which electricity consumption data is collected for the purpose of establishing a Baseline. The applicability of this term is limited to Meter Before/Meter After, and Baseline Type-I and Type-II.	-	_	Y	-	-	Y
12-Event and Performance	<u>12</u>	<u>22</u>	Baseline Exclusion Dates	Dates of days Excluded from the calculation of the Energy Baseline	-	-	1	<u>Y</u>	-	1	<u>Y</u>



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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	12	23	Energy Baseline Value	Calculated Energy Baseline	A Baseline is an estimate of the electricity that would have been consumed by a Demand Resource in the absence of a Demand Response Event. The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Modification Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real time or after the fact.	-	-	Y	-	-	Y
12-Event and Performance	<u>12</u>	<u>24</u>	Energy Baseline Timestamp	Timestamp of Energy Baseline	-	_	_	<u>Y</u>	_	_	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>30</u>	Reporting Interval	Interval size required for Reporting	-	-	-	<u>Y</u>	-	_	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>31</u>	Measurement Value Timestamp (CIM)	The time when the value was last updated	-	ı	_	<u>Y</u>	_	-	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>32</u>	Measurement Value (CIM)	Value of the interval reading	-	_	_	<u>Y</u>	_	_	<u>Y</u>
12-Event and Performance	<u>12</u>	<u>33</u>	Response Value	Response	-	_	_	<u>Y</u>	_	_	<u>Y</u>



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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	<u>-</u> <u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
	12-Event and Performance	<u>12</u>	<u>34</u>	Measurement Value Type	The type of measurement value.	The Measurement Value Type identifies the type of information provided in the Measurement Value. For example, the Measurement Value type could be energy (kWh/MWh) or demand (KW or MW).	-	-	<u>Y</u>	_	-	_
	12-Event and Performance	<u>12</u>	<u>50</u>	Simple Signal Levels	Used as an alternate and simplified representation of the DR signal, whether it be price based or a dispatch. Takes on a small number of finite levels such as NORMAL, MODERATE, and HIGH, SPECIAL	-	-	-		-	1	Y



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

NIST PAP 03 and PAP 09

1	의					<u>Wholesale</u>					
<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
12-Event and Performance	12	<u>51</u>	<u>Criticality Level</u>	This field defines the level of criticality of this event. The action taken by load control devices for an event can be solely based on this value, or combination with other Load Control Event fields supported by this device.	For example, additional fields such as Average Load Adjustment Percentage, Duty Cycle, Cooling Temperature Offset, Heating Temperature Offset, Cooling Temperature Set Point or Heating Temperature Set Point can be used in combination with the Criticality level. Criticality Level Level Description Participation O Reserved Green Voluntary 1 Voluntary 2 1 Voluntary 3 2 Voluntary 4 3 Voluntary 5 4 Voluntary 5 4 Voluntary 6 5 Voluntary 7 Emergency Mandatory 8 Planned Outage Mandatory 9 Service Disconnect Mandatory OxOA to OxOF Utility Defined Utility Defined	-	-	-		-	Y
12-Event and Performance	<u>12</u>	<u>52</u>	Usage Information	Information about the near real time electricity usage of the DR Resource.	-	_	-	_	-	-	<u>Y</u>
12-Event and Performance	<u>12</u>	991	Event & Performance comments	Comments associated with Event and Performance data	-	_	_	Y	ı	-	-
13-Direct Load Control	<u>13</u>		<u>Direct Load</u> <u>Control</u>								_

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For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

		R □				<u>Wholesale</u>		<u>lle</u>		<u>Retail</u>	
<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
13-Direct Load Control	<u>13</u>	<u>10</u>	Status Check	A signal to require the DR resource status to be sent back. (Only applicable to Direct Load Control)	-	-	-	-	-	_	<u>Y</u>
13-Direct Load Control	13	11	DR Control Command: Direct Load Control Type	The type of DR Direct Load Control Command: e.g. Set Point, Open/Close, Heating Temperature - offset/setpoint, Cooling Temperature - offset/setpoint, Load adjustment offset	-	-	_	_	-	_	Y
13-Direct Load Control	<u>13</u>	<u>12</u>	DR Control Command: Direct Load Control Value	Value associated with the Direct Load Control Type.	-	-	_	1	1	-	<u>Y</u>
13-Direct Load Control	13	<u>13</u>	Duty Cycle	"Duty Cycle: Defines the maximum On state duty cycle as a percentage of time. Example, if the value is 80, the device would be in an "on state" for 80% of the time for the duration of the event. Range of the value is 0 to 100. A value	-	-	-	-	-	-	Y



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	<u>Data Element</u>	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
				of 0xFF indicates the field is not used." (from SEP2.0)							
13-Direct Load Control	13	<u>14</u>	Event Control	Event Control options for randomized start or end times: 1= Randomize Start time, 0=Randomized Start not Applied 1= Randomize End time, 0=Randomized End not Applied. (from SEP2.0)	-	-	-	•	-	•	Y
13-Direct Load Control	<u>13</u>	<u>15</u>	Exception Conditions	This is used to report that the load controller may not behave as commanded because of a variety of conditions including: • Faults in device • Customer override.	-	-	_	-	1	1	Y



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

		ᄱ				<u>Wholesale</u>		<u>Retail</u>			
<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
13-Direct Load Control	13	<u>16</u>	Load Control State	The state of the load, which includes both commanded states and user settings. This may include a schedule of future states if a particular control algorithm for the load controller is being executed.	-	-	-	1	1	-	Y
14-Price and Product	<u>14</u>		Price and Product								_
14-Price and Product	<u>14</u>	<u>10</u>	Product Name	Same as 7.13 Market Product	An identifier for a particular electricity product offering: energy, capacity, ancillary services, etc.	<u>Y</u>	-	-	_	_	_
14-Price and Product	<u>14</u>	<u>11</u>	Product Type	Defines the source and product	Classifications used within industry for trading energy. Examples: PJM Energy, NYISO 10-min Spin, etc.	<u>Y</u>	-	1	I	-	<u>Y</u>
14-Price and Product	<u>14</u>	<u>12</u>	Product Sub-type	Used to further define product types	_	<u>Y</u>	_	1	<u>Y</u>	-	_
14-Price and Product	<u>14</u>	<u>13</u>	Identifier Source (product)	The Identifier Source references the product identification scheme for the Product Identifier.		<u>Y</u>	_	1	_	_	_



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Requesters: Smart Grid Interoperability Panel Request No.: 2010 REQ Annual Plan Item96

Request Title: Master Data Requirements List for Business Practice Standards associated with

		7				<u>Wholesale</u>			<u>Retail</u>		
<u>Category</u>	Category ID	Category Element ID	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
14-Price and Product	<u>14</u>	<u>14</u>	Unit of Measure	Attribute of Product Identifier	-	<u>Y</u>	_	1	1	_	<u>Y</u>
14-Price and Product	<u>14</u>	<u>15</u>	<u>Currency</u> ◀	Economic unit of exchange in which the total price and price components are stated (e.g. dollars, euros)	_	<u>Y</u>	_	_	<u>Y</u>	_	<u>Y</u>
14-Price and Product	<u>14</u>	<u>20</u>	Product Identifier	Identifies specific product associated with the price		<u>Y</u>	_	-	<u>Y</u>	-	_
14-Price and Product	<u>14</u>	<u>30</u>	Override Unit of Measure	Optional Attribute of Price object If this is used, then Unit of Measure is not applicable	-	Y	-	-	-	-	-
14-Price and Product	14	<u>31</u>	Product Price	The sum of all Price Component Values for a given product (Total Price).	_	<u>Y</u>	_	_	1	_	<u>Y</u>
14-Price and Product	<u>14</u>	<u>32</u>	Product Price Factor	Terms of use attribute of Product Price	Examples: Price absolute, Price relative, Price multiplier	<u>Y</u>	_	ı	<u>Y</u>	_	_
14-Price and Product	14	<u>33</u>	Price Component Type	The portion of the price to which the corresponding value applies.	Examples: Energy, congestion, losses	<u>Y</u>	_	-	-	-	_
14-Price and Product	<u>14</u>	<u>34</u>	Price Component Value	The value of the price component.		<u>Y</u>	_	_	_	_	_



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Request Title: Master Data Requirements List for Business Practice Standards associated with

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<u>Category</u>	Category ID	<u>Category</u> <u>Element ID</u>	Data Element	Short Description	Long Description	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>	<u>PAP</u> <u>03</u>	<u>PAP</u> <u>04</u>	<u>PAP</u> <u>09</u>
14-Price and Product	<u>14</u>	<u>35</u>	Price Location	The location at which the price is applicable.	_	<u>Y</u>	_	1	1	_	_
14-Price and Product	<u>14</u>	<u>36</u>	Price Type	Time characteristic of the price	The type of price (day-ahead, real-time, etc.).	<u>Y</u>	_	1	1	_	_
14-Price and Product	<u>14</u>	<u>37</u>	Delivery Time	Time at which the product is available for physical consumption		Y	_	ı	<u>Y</u>	_	<u>Y</u>
14-Price and Product	14	<u>38</u>	Delivery Interval	The duration over which the product is available for physical consumption	_	Y	_	_	<u>Y</u>	_	Y
14-Price and Product	14	<u>40</u>	Source Location Identifier	The identifier of the source location of the product for which the price applies	_	<u>Y</u>	_	1	<u>Y</u>	-	_
14-Price and Product	<u>14</u>	<u>41</u>	Source Location Identifier Type	The type of source location of the product for which the price applies	_	Y	-	_	-	_	_



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 Retail Annual Plan Item

Request Title: Master Data Requirements List for Business

Practice Standards associated with NIST PAP 03,

PAP 04 and PAP 09

4. Supporting Documentation

a. Description of Request:

2010 REQ Annual Plan Item 9 and 2010 WEQ Annual Plan Item 6 – "Develop Smart Grid Wholesale and Retail Electric Standards"

b. Description of Recommendation:

This recommendation provides the data requirements related to the use cases developed for Priority Action Plan 03 and 09 as part of the phase one effort

c. Business Purpose:

This recommendation has been developed in response to a request from NIST to provide use cases and requirements germane to the development of standard DR and DER signals.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

NAESB Smart Grid Standards Subcommittee Meeting Notes/Documents:

- March 11, 2010 Meeting Notes To be posted
- March 18, 2010 Meeting Notes To be posted
- March 25, 2010 Meeting Notes To be posted
- April 1, 2010 Meeting Notes To be posted
- April 8, 2010 Meeting Notes To be posted
- April 29, 2010 Meeting Notes To be posted
- May 13, 2010 Meeting Notes To be posted
- May 20, 2010 Meeting Notes To be posted
- June 10, 2010 Meeting Notes To be posted
- June 17, 2010 Meeting Notes http://www.naesb.org/pdf4/smart_grid_ssd061710notes.doc
- July 1, 2010 Meeting Notes To be posted
- July 13-14, 2010 Meeting Notes To be posted
- July 22, 2010 Meeting Notes To be posted
- August 5, 2010 Meeting Notes http://www.naesb.org/pdf4/smart_grid_ssd080510notes.doc
- August 12, 2010 Meeting Notes http://www.naesb.org/pdf4/smart_grid_ssd081210notes.doc



For Quadrant: REQ

Requesters: Smart Grid Interoperability Panel Request No.: 2010 Retail Annual Plan Item

Request Title: Master Data Requirements List for Business

Practice Standards associated with NIST PAP 03,

PAP 04 and PAP 09

August 26, 2010 Meeting Notes – http://www.naesb.org/pdf4/smart_grid_ssd082610notes.doc

- September 9, 2010 Meeting Notes http://www.naesb.org/pdf4/smart_grid_ssd090910notes.doc
- September 16, 2010 Meeting Notes –
 http://www.naesb.org/pdf4/smart_grid_ssd091610notes.doc
- September 23, 2010 Meeting Notes To be posted